

# SEQUENCE LISTING

<110> Munger, William E.  
Kulkarni, Prakash  
Getzenberg, Robert H.  
Waga, Iwao  
Yamamoto, Jun

<120> Identifying Drugs for and Diagnosis of Benign Prostatic  
Hyperplasia Using Gene Expression Profiles

<130> 44921-5029-US

<140>

<141>

<150> US 60/223,323

<151> 2000-08-07

<160> 746

<170> PatentIn Ver. 2.1

<210> 1

<211> 333

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. AA004699

<400> 1

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gcaggaggct ggggttggct cctcgactcc acaaactg aggagtgggt ggggacacca 240
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ctacactatt atttaaaaaa aaaactcaca aaaagaaaaa tggtatcact acaagtagga 180
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<212> DNA
<213> Homo sapiens
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gttcactttta	ttatttttgc	gattTTTTTTT	ttgcatgtga	tttttaaattt	tattttcaaca	180	
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<213> Homo sapiens

<220>

<223> Genbank Accession No. AA019433

<220>

<221> unsure

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tgaccactcc ataggcagag aaacgtcact ttaagggttt gacatcaatt gatttttgtc 180
caaatcaata attactgcaa tgattgaaaa atgattatta ctaagtttgt tttcattgtc 240
tcaagggtctg ctgaactctg gatccaggct gtgtcaacag ggtagtgtgg tgcctcctgt 300
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gtcttactat gttgtcaga ctgggnttca aactcctagg ctcaagcaat cttccagcct 420
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<211> 245

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<213> Homo sapiens

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<221> unsure

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<400> 7

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tttctggggc agactttttc cggggccgat ctttggaac ggacagaaat tcgggtgcgt 180
ctgtggagag aggggtggat ggagcactag aaggcgact gcggacngaa aaaaggcccc 240
ccccg
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<210> 8

<211> 337

<212> DNA

<213> Homo sapiens

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<223> Genbank Accession No. AA025370

<400> 8

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tttaagagtc catcaaagtg tcatatgtgt taggtgtgaa atggcgacac tgggaattac 180
tgtaataaag ggggtgctgc agcacggtga ttgttatgag aacatcccca ccgccccact 240
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cagttgacaa aagttaatct cggtgataag aatatgc
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<210> 9  
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<220>  
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 ggggtggaaag gacctggacc acacagagca ggactccaga gcctcctcca tatggcagga 180  
 atcaagcttt cacaggggaa acgcaggatt tcccacacat gcccatgcaa cacttcaagt 240  
 cacgcttgca ctggccatcc atctcacaga aattgggggg gttnagcatc naacattggc 300  
 canaantcac tnggnacttn ccaagggttn cnccttggtg ggnttngggg ggttnnacagg 360  
 ggncccggca nttnatgcnc caagtttcng ggcaaanatt tcttttttcc c 411

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 <213> Homo sapiens

<220>  
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 ttttacaaca tattgtacaa aagatacatt gataggctct tatctattta tatatttata 180  
 attacatatt gcacttggac cagcaaggct tgcagagtca ttcacggtag aagttaataa 240  
 agttaaatag atgggaatct ttgtaagtac aattgatctc ctctgggttg gaaacgaatc 300  
 tcctcgtcgt tgtaaagtgt tctcgcgggg tgggacagag agaggagcat tgcgaggggg 360  
 aagcagagac agagagcact gagggcaggg gtcgccttcc cggggcccg ccccccg 420  
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<210> 11  
 <211> 422  
 <212> DNA  
 <213> Homo sapiens

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<220>  
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 aatggtgcta tcttaaacac caaatatcaa ctgcagttca ctttttccgt gtgggggacta 120



atatcaagat ttcatatgaa ttatagtata atccagaagt atgaaaaaat acatcatatt 180  
 taacttataa agcattcatc tgcattgttat aagatattac agtaaatata attaggtact 240  
 taccatttta tctttacttt aaaaacaatg cctnttccaa aatataaaaa aaagacctat 300  
 ttttaaagan ctatttaaag atngcttttg aaaacaacac ttttatntta cnacaaatag 360  
 atggtagtgg caacagcact cgtggatgtt tacngntaaa taaaaatacc tagtattccg 420  
 gg 422

<210> 12  
 <211> 253  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <223> Genbank Accession No. AA029597

<400> 12  
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 aataaatagt cttaaataag aaaacaaaca ggttgaagga aagcaagctc atcgtcctga 180  
 acgaggggatt aaaggggggg ggtgttcaaa agagctttgg atggaaataa ataattctctt 240  
 tgctttgtaa cac 253

<210> 13  
 <211> 186  
 <212> DNA  
 <213> Homo sapiens

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 <223> Genbank Accession No. AA031360

<220>  
 <221> unsure  
 <222> (1)..(186)  
 <223> n = a or c or g or t

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 tacattcaaa atttttgaca ggtacagagc acattaaaaa atgaagacat gatcaaggag 120  
 atgtaagaga caaatagaca acaacattct ccttgaatct ggaaaaaagc nagccnttag 180  
 ggtnc 186

<210> 14  
 <211> 206  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <223> Genbank Accession No. AA036900

<220>  
 <221> unsure  
 <222> (1)..(206)  
 <223> n = a or c or g or t

<400> 14  
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tattttattga caggttgggc tgtgtgtgtg cgcattgttg tatacatttc caggcgtgcc 120  
 tgtgtcctgt agcttttttaa aaggaaaccc agtcatccca ctatgaatct ggcattcttct 180  
 tatgcttcta gtgttttggc canaca 206

<210> 15  
 <211> 494  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <223> Genbank Accession No. AA039935

<220>  
 <221> unsure  
 <222> (1)..(494)  
 <223> n = a or c or g or t

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 aaccagcag agagcagtac aantcagcat gcggtcccng atagctgaag tctcgggcng 180  
 gccagtgggt ccctgcggaa naggcttcgt nggtgganag nactcctggc ccaggtggnc 240  
 ccaccagann ntcnntgacc ntctcnanga gacttgcnag gtangcagct ccnnacacc 300  
 agccccttgn gtctcaantn tacgggtcca aggaggggac gggaaaggct gcttgggtccc 360  
 caccaaggct tggggggctg ggggggcctg ctggcccagt gaagatgcag tgggtctgttc 420  
 agcctggggg caagttgggg gaaagggttt ctgaggggtc agcacctccc cagaggacaa 480  
 ggagagaagc tgcn 494

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 <211> 421  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <223> Genbank Accession No. AA040433

<220>  
 <221> unsure  
 <222> (1)..(421)  
 <223> n = a or c or g or t

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 ttcagctcca gggctctgggc taggaagacg ttccagtgc cttcgtgggg gccagcgagc 180  
 agtcggaagt gctgtgcttc tttctggaag tcttgcttcc tgactttctt gatctgagtc 240  
 aagtggaaga ttctggctgt gtggccttgg cagggtactt cacctctctg agcctcagtt 300  
 tctcatctt ttaccagctt ccagaggtag atctccacca agtccgaggc ctngtggttc 360  
 ccaggggcaa agcgacgnag gttngtctng ggctttgggg gataccggat gttttggacg 420  
 a 421

<210> 17  
 <211> 486  
 <212> DNA  
 <213> Homo sapiens

**Abstract**

[illegible]

**Abstract**

[illegible]

**Abstract**

[illegible]

**Abstract**

[illegible]

**Abstract**

**Abstract**

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ctaccaaggt atgggggctt ctctaagaca caagatcaga ttaaagtctt gaa 353

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<212> DNA  
<213> Homo sapiens

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<222> (1)..(382)  
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atgcgggagg gcctgggggc tcagagggaa gaactgaggc aagaagcccc ggtgatccag 180  
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ggggcacagg agggctcccc gaggtttggt ccgggagggg gaggaaaact gccccctgcn 300  
ctgtcaatct ctgcaatgtg ccgagcccca gctccttgan tccctcagtg cctttggggc 360  
tggatgctca ganagcagtt ga 382

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<211> 428  
<212> DNA  
<213> Homo sapiens

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<220>  
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ttataggtaa ttgttcaatg tttgtacttg ttatttgaga ttttaccttt cactgataaa 180  
gttacagtac attagatcca tgataatagg ttacattatt ttatttgcag agccctactg 240  
cagtgatctg aacaactcct aaatagatgc cataataaag acaagacata tattgcattt 300  
aatattaatt tattatccta ataagcaaca tgcaatctat tgaggaagct aaaataactt 360  
ttgggtcccct ttcttaaaat gtgctggaga aaccaccctt aaaatcactt tcccccgga 420  
tccngcga 428

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<211> 328  
<212> DNA  
<213> Homo sapiens

<220>  
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atctcacaa aggcattttt actgaaatac taggaatttt ttcaatacaa tcagttagaa 180  
atacacaaa attacttgaa aaaaaaaaaa agaggaggcc agataggagc tcagccactt 240  
gtccaagagc agctgggtcc ccccagcagg ctccaccgct gagggtcctg acattagctg 300  
tcagcccctg gctgtctcag actggcaa 328

<210> 23  
<211> 402  
<212> DNA  
<213> Homo sapiens

<220>  
<223> Genbank Accession No. AA045503

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ggcagcaggc atttcccagg gttaaggctg atggaaggtc cctatcccag atgggagatg 300  
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<211> 437  
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<223> Genbank Accession No. AA045825

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cagtggggtg ggaacgttga cttgactgtg gcaaattcag gctcagcacc ttccaaagaa 180  
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ccctcccaa acccagggtt tctgcctcgg gcctcagttt ccctcctccc agtgattacc 420  
caagttgggc ccatcag 437

<210> 25  
<211> 397  
<212> DNA  
<213> Homo sapiens

<220>  
<223> Genbank Accession No. AA045870

<220>  
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 tgtaccattt tcaagcagta ctacattagg agccctttta tagaaaataa tttcttcttt 180  
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 ttnggatttg ggattctcaa atggtataag ttggcct 397

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 <211> 564  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <223> Genbank Accession No. AA046426

<220>  
 <221> unsure  
 <222> (1)..(564)  
 <223> n = a or c or g or t

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 cagtctctgc agaagcatca tgagtaacct gtgcctttac actttacaat ccggtatttg 180  
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 gacagtcaaa attttgcaat atagatataa tatataggga tatataagaa ctacaagaaa 480  
 atccccaaaa cccataaagt tcaaatgtga aacagaaaag tttaacctgg agattcgcta 540  
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<210> 27  
 <211> 560  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <223> Genbank Accession No. AA046840

<220>  
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 ctgcatcaac aggagtaaga tgtagaaaaa gctaccatta caaaaataat ttaagggaaa 180

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ataaacacgt ttagcttctc tcgcagttta gtggtggtta gtccaggctg tagcttcttt 240
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agctgcttga agaactgccg gagggccagg tcccgctga ntgctccacg cgctgggtgca 480
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ggggtttgcn acgggatgtt
560

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<210> 28
<211> 464
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<220>
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tgatgtgaac tggatatagc aatgaccagt ggctgggtca gtgggatgtc tctctgtgag 240
cacaaaggct tatcaaatga cactaaagat aagttcaaca accatcacat tggaaggagg 300
aaaggccgaa catttcattg ttggccgggc atgtgagtgc acaagatgga aagagcgatt 360
ggagcatcct ggtataatta ccccatgtg gctcttaatg gaaatttcaa aggacgggag 420
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464

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<210> 29
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<212> DNA
<213> Homo sapiens

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<220>
<223> Genbank Accession No. AA047880

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ataaagacaa accacttgcc tgtacttctc atcttctatt tgttcatttc actgctggaa 360
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413

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 gggctctgtg tttgcagctc tcctgaacag agctagatga ggggtgggagg cccccgttgg 300  
 ctacacacagt ggatgctacc atctccggcc tcttgatgt ggagctctgt gccagagtca 360  
 acagtctcca ggggtgggccc gaagtgtgtg taggcgntct caaggccgaa atctgctctt 420  
 cctcagattc t 431

<210> 31  
 <211> 451  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <223> Genbank Accession No. AA055163

<400> 31  
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 ctctattttc aaaaaatttg cacagtgtct tacacatgtg ctaaaagatt gagaaaataa 120  
 attagaaaat tatactgcac acttaacact aaatctacca agcacaatgt aacttttaga 180  
 cagctcagaa ggcacttttg gatttttttt tttttcagtg cctcagggat cagtatgaac 240  
 tccaattatt gttgccctgg ccaattgtgg gactactgat aactggagag ttaattgact 300  
 gctggataaa gcaatcttta atctaaatgg ggaaggctca ctagcagcta cagaggaagg 360  
 gggatttcag atcccagctt aaggctagga agccagctga cccaatcaga gacatgaacc 420  
 catcagaaaa atgtaaaagt tttcatcttt c 451

<210> 32  
 <211> 354  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <223> Genbank Accession No. AA055768

<400> 32  
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 gggcagtaga ggaattccat atattaatga atgtgagatt aagtatagag tgaagacatt 180  
 aacacacaat ttctaatttc tgtaggcag aatgctcccc taccctgatg ccacagcctt 240  
 tcacgtttcc taaaccctag taacctctga tctccatctg cctcatcaac acgtcaccac 300  
 cctttgctct tcttccaatt tagtcacatg ttgggctgaa tttatttcca ctcc 354

<210> 33  
 <211> 610  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <223> Genbank Accession No. AA056121



<220>  
 <221> unsure  
 <222> (1)..(610)  
 <223> n = a or c or g or t

<400> 33  
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 tcagcagcgg gagaagatgg acaagagaaa gctcgggcga cggccatctt catccgataa 120  
 gaaagatgtt aaatgcaaaa ccagaggatg tccatgttca atcaccactg tccaaattca 180  
 gaagctcaga acgctggact ctccctttgc agtgggaaaag aagcctaagg aataaagtca 240  
 tctctctaga ccataaaaaat aaaaaacata tccgaggggtg tccgtgttact tccaagtcac 300  
 caccagaaaag gcaactcaaa gttatgttga cgaatgtcct atggacggat ttaggacgaa 360  
 aattcagaaa gaccctacct agaaacgatg ctaattttatg tgatgccaac aagggtgcaat 420  
 cagactcatt gccttcgaca tctgttgaca gcctagagac atgtcaaaaa ttagaacctc 480  
 ttgcgcaaaag ccttaattta tctgaaagga tnccagagtt atattgacga atgtctggga 540  
 acgggttagg aagaaatcct aaggncaccac ctgtactgag ggaattgggtg ttcagcaant 600  
 gcatcaggga 610

<210> 34  
 <211> 404  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <223> Genbank Accession No. AA057195

<220>  
 <221> unsure  
 <222> (1)..(404)  
 <223> n = a or c or g or t

<400> 34  
 agaaaaacca agtgtcttta ttccctcgatc gtttagtatg gcgggtgggcg gcgcgcgcgg 60  
 gggagcctgg agcccaggga atcgacctgg agggccagtn gngggancgg aggggtgcgag 120  
 gntcggctcc tccgcagccg gccctggagg gggttcttggg ggatcgcgcc agggcaaaaag 180  
 tctgcatggg cggccccgag cctccctgag ccggcgcgcc ccgggnttng ggagaggccn 240  
 ctctgnnccg ggtgccngtg cgggccccgg tgccggcgctc gccaagggc taagggtgcc 300  
 cgtctcaggc gagaccccag gagccccg ccccgctgt ctcttcagcc gacgtagaca 360  
 cgtngggccg ggaaccccag tcttaacgct tgttcaagct ctgg 404

<210> 35  
 <211> 491  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <223> Genbank Accession No. AA057829

<220>  
 <221> unsure  
 <222> (1)..(491)  
 <223> n = a or c or g or t

<400> 35  
 caggccagc ctctcctgca gctgcgcgtn gctcacctcg ctctggcccc tgggtgccgtc 60  
 cacctccagg gtggcctcac cgtccctcag cgagacgggtg accacgtgct cttggccgtc 120



<210> 38  
 <211> 328  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <223> Genbank Accession No. AA084138

<400> 38  
 gggtacaaga ttctttatatt tgtaaaactat acataaacag taaaaaagaa aatgcattat 60  
 actttatttac gtaaagtcaa cattaaattt tgtattgagt gtgtataaat taaatggaaa 120  
 taattaatca attttgcttt caatgaattg tatactggga aaccagttta cccactgttg 180  
 aaattaaaga taccaatagc taacattcaa cagggttttc catttttatt atgggcacaa 240  
 aaccattggt atgatatagt taaaagtgat ggtgtgccaa aatgtctaca caattaatta 300  
 acatgctaac ttaaatacag cggttaaa 328

<210> 39  
 <211> 370  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <223> Genbank Accession No. AA085943

<220>  
 <221> unsure  
 <222> (1)..(370)  
 <223> n = a or c or g or t

<400> 39  
 agaaccacagc ggtgttctga ggggagcgtt tatttcaagc naccgatggg acaaacantc 60  
 ccaggcttcc cagggtgncan tgnccggggc ggcacacctca cttccagcgg cctccaacgc 120  
 ggcccttccc tgcccccttc cggaacttct gggcgtggct gatgcggttg tacagcacgt 180  
 tgatctcata tttctgctgt ttcagcttcg ccatcaggtc gaacttctca gactccagct 240  
 ggtggatcca gtccgacagc tcttgggctt tctcccgag ctgttctctc cccatgtaag 300  
 tcaatgttca agagggcttc ttaacgctcg gaaaaggaat gcgcaccttc atctcccggc 360  
 ccccgctctgg 370

<210> 40  
 <211> 406  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <223> Genbank Accession No. AA086264

<220>  
 <221> unsure  
 <222> (1)..(406)  
 <223> n = a or c or g or t

<400> 40  
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 ttatttcngg aagtcagaag aaaaacaang ngcacacact gaatgacaca gagcggcagn 120  
 tggaaaccac aggggctgcc ganagctggc ctttcacagc agaccactgt tttccagtga 180  
 gaatggtggg ccattccaaa acaaagctaa agggttccaa acatccagaa tggaagctgc 240

ttcccccaac tccattacct atactacagg atggattgct ttttgtgaga ccccttcttc 300  
 cactgggcaa ttttnggcat tatttaccct cccccgatt tttaaaagct aaaatggcgt 360  
 cccaggggaag aagtgccggc ttggatgcan gcttgggcca ntcact 406

<210> 41  
 <211> 250  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <223> Genbank Accession No. AA091278

<400> 41  
 gtttgccttc taattgatca tttagactat tctggctaag tctgccaca tgtaattacc 60  
 ggctaattca agcgaggaaa aatgtaagtc atttagacca aagccaagca gtttctttgc 120  
 gtgggttact caagggttg tggttacttg tatctcctct atgtgaactt gactttgaaa 180  
 gacagagctc tagtgtgcca gcctgctaag tcctgtaaga atagggaggg cggagggggg 240  
 ggcagtacta 250

<210> 42  
 <211> 307  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <223> Genbank Accession No. AA092716

<400> 42  
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 ggcccttggt gccctagagt gggacccagc cctcacctcc cccagagcta acctgggagg 120  
 tgctgaaggg gcattgggcc accgtaagca agggaaaaag ggcagatcat gcggggagat 180  
 gaccttgatc tttgattgct accctaacct tgacctttaa cccgtgattc cccagctcc 240  
 tggagagatg tctaatatct cttagggacc agaccctaaa ttctctctcc ccatttgatg 300  
 ttagtggt 307

<210> 43  
 <211> 309  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <223> Genbank Accession No. AA093923

<400> 43  
 gtcataatgg accagtcatg tgatttcagt atatacaact ccaccagacc cctccaaccc 60  
 atataacacc ccacccctgt tcgcttcctg tatggtgata tcatatgtaa catttactcc 120  
 tgtttctgct gattgttttt ttaatgtttg gggttggttt tgacatcagc tgtaatcatt 180  
 cctgtgctgt gtttttgatt accctggtag gtattagact gcacttttta aaaaagggttc 240  
 tgcacgtgag agcatttgac cacagtggac gcgtggctat gcaggtgatt cctcagtcct 300  
 ccttggtct 309

<210> 44  
 <211> 271  
 <212> DNA  
 <213> Homo sapiens

<220>  
<223> Genbank Accession No. AA094800

<400> 44  
gcgactgcag aaaaagttcc agaaacaatt tgggggttagg cagaaatggg atcagaaaatc 60  
acagaaaacc cgagactctt cagttgaagt tcgtagtgat tgggaagtga aagaggaaat 120  
ggattttcct cagttgatga agatgcgcta cttggaagta tcagagccac aggacattga 180  
gtgttgttgg gccctagaat actacgacaa agcctttgac cgcataccca cgaggagtag 240  
aggccactgc ggcatacagc gcatcttcac a 271

<210> 45  
<211> 323  
<212> DNA  
<213> Homo sapiens

<220>  
<223> Genbank Accession No. AA099820

<220>  
<221> unsure  
<222> (1)..(323)  
<223> n = a or c or g or t

<400> 45  
gtgacatggt ttttgcttta ttgaaattct ctcttacaaa aggtctgang tatttttaggc 60  
caggcctaatt ttgcttttgt ccctgaaatg caggcccatg gtcatttcca tgctcctctga 120  
agtaggtatg taaactagta gacttccatt ttttaagggtc acacactttt taacattgtt 180  
tttatttgat gtaaaacaag acttatgttg tccctaattg aaagaccaag taagagagtt 240  
atgtgcgtct tcatggaagg gataactgga ttctttgcca gaaccgggtt ggaatttag 300  
tttgttcaat gtggcatctt tca 323

<210> 46  
<211> 431  
<212> DNA  
<213> Homo sapiens

<220>  
<223> Genbank Accession No. AA101767

<400> 46  
catttcataa ataatgtact ttatttttatt gcatatggct attaaggagg gcatccatga 60  
tcaatacaga ctaaatacaa tgcactattc tagtccagtt tattctcgtc tccagcagca 120  
tcacattgac ccctatatac agcgtgtaca gtggaagaca gagcaagata agttaagtct 180  
cttgtcatat cacaatagca agaaatatat ttaacatctt gatatccaga aacaatacgt 240  
acccaaaaag aaaacactgt ttaataactg ttaaagttta tatagcaaaa aatatttttaa 300  
atttaaggta agtcaggcaa aatgtacaaa gacccaatat acattgtgaa gtttttagcaa 360  
acataacatt tatacatttt ggttccattc tgtaactaa attaaaaatg gtaaatattg 420  
catatgcctt t 431

<210> 47  
<211> 260  
<212> DNA  
<213> Homo sapiens

<220>  
<223> Genbank Accession No. AA102489

<400> 47  
 agtctacaag ttcagaccca catgtaacgg atttttgctt catggttgct agaggctagt 60  
 gtgcattatt tctgaggatt atatccaatg acacgacgca gaaaacacaa atggacggac 120  
 agacggatgg acataatcat taagacaaga gactctaaaa cgtgccttag tgtccacgtg 180  
 attgatctaa ggcggggacc cttctaagggt ggggacccga gtgatctaaa gcagggtggc 240  
 ttccagcaca aggtgtccga 260

<210> 48  
 <211> 365  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <223> Genbank Accession No. AA121142

<220>  
 <221> unsure  
 <222> (1)..(365)  
 <223> n = a or c or g or t

<400> 48  
 tttttttttt ttttcaacaa actcagcttg actttattac atggaagctt gcagggagacc 60  
 agcggggaag gcctgtctgg gcaggaactc catggctggg ctggactgga ctgagcagtt 120  
 ggtgttccag atctgccggg gagaccagat caacagcctg cctcttcagt ttatatccgg 180  
 aagactcgcc caggtcctgg ctacttgggg ccaaggtagg aaacagcctt tcctgttttg 240  
 ttgagggttg ccancagggt gtctgagctg tgcccaaagt cgatgcagac cttctttttg 300  
 ggcaaggcca atgttgaact ccantcctcc caagcttggt tgaaggactc tggaaaacgg 360  
 gtttt 365

<210> 49  
 <211> 261  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <223> Genbank Accession No. AA127946

<220>  
 <221> unsure  
 <222> (1)..(261)  
 <223> n = a or c or g or t

<400> 49  
 ttaaagtgaag agaaacttta ttttgagtaa tatacatatc attcattcca ttttaattttc 60  
 atagctatgc nctatgaaaa ttaaattggaa tgagtaatat acatatcatt cattccattt 120  
 aattttcata gtgcatagct atgtgtagaa gtacacaggg agaataaac attagaaata 180  
 cctagccatg aaaatataca agtgaagaca tttgatatat ccatggacng gcttggaagt 240  
 attataaaac aggatccatt a 261

<210> 50  
 <211> 444  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <223> Genbank Accession No. AA130349

<220>  
 <221> unsure  
 <222> (1)..(444)  
 <223> n = a or c or g or t

<400> 50  
 tacaaaaaac aattgttatt tgtgtacttt taaaacctca cagtaatatatt ttcacactac 60  
 cttcttggct gaaagttcac actcgggaatt ccagagcagt ccatggccag gccactgggn 120  
 tccccttgct ctctccttgg ctttggtaac cactggcccc agggactcag cctgctttcc 180  
 tatccatccc ctcaagtagct gtcacccatgc aggttacccc ttctgtttct tctaccacta 240  
 actccatgtc tgactgcaag tgaaaggaac agaagcccaa acctttgggt tttaaggagt 300  
 ttattgctaa tctgtaaaac agaaagagac aggagataag catgacaaaa tatagggaag 360  
 aaatgacttt tgctaaact tccaaactgt gtacaattga agcctccgct ttatagctct 420  
 tagcacacct ctcaaataag aagg 444

<210> 51  
 <211> 616  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <223> Genbank Accession No. AA131322

<220>  
 <221> unsure  
 <222> (1)..(616)  
 <223> n = a or c or g or t

<400> 51  
 gatttccatg cactttaatg aggtccagca ctcaggagga ttagcgccca ccaccagctg 60  
 cctgggcagg ggagggccgg agcaggtngc aggcgtcagg cttaggacag ggaagggggc 120  
 tcaggatggg gaagggctct caggacaggg gaaggggctc agaagagagc agggggctta 180  
 ggacaggaag gggcactcag gacggggcag ggaaggtgtg gggggcagtc gccacctggg 240  
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 ccaggcctga ctcacggctt tttggggaca tagtggtgga tccagtccaa gtagtaggtg 360  
 acacgggtgt agatgccagg ccggttgggc tgggcacagc tncgntccca gctgaccacg 420  
 cccgcctgta gccagggtgc attcaccttg cacaccaggg gccctccaga gttcgccctg 480  
 gcatgagtc ctccggtgtt cccggcacac agcatgtcgt tcacggatga tgccgacgtc 540  
 gtctcccgtg taggcgcaa agtggtatgt gcgtcacaaa tgtggtttcc attatgggga 600  
 ccttactgct ttcagg 616

<210> 52  
 <211> 464  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <223> Genbank Accession No. AA131919

<220>  
 <221> unsure  
 <222> (1)..(464)  
 <223> n = a or c or g or t

<400> 52  
 tttttttttt tcctgagtaa ttttttattt tgtgcagaga caggatccag aactcctggg 60

```

ctcaagtgat cctcccaactt tgggtctccca atgtgctaga attacagccc tgagccacgg 120
ccccatgccc cgttttttacc agtgtatatt ttctactgga aaatgagact tttaggggatg 180
aatgtggact tgtctgttga aacttgtaaa tttgcttaaa aaaaaaaaga tctccaagtc 240
ttcacaaaat tttatatattcc ccaaggctgc cccatcacaa tgcctgtgaa gcttgactgg 300
cagacactga ggcctgaagc tgggggctgc aggggggtcac tggctcaccc ggtccccccg 360
taatctgtaa aacatactgg gtgagggagg ctgctggagg acctgaatct ctcccttctc 420
caggcagtag tgaggcatat gctgntggcc ttgggccaat taaa 464

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<210> 53

<211> 393

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. AA133756

<400> 53

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ctccatttat tttattttat ttttttataa aaaagcaggc ataaaatata attacattac 60
tacgaagatg caacaaaatt ttaaaaaaga aaaaggggtg caattttttt cagagaggac 120
agctgatcaa atattttataa ttttctaaac catgcagttc attacttatt acaattccaa 180
acaaaactca ttattatggg gatgggagtc agggagaggc ccccccccaa gcatgatatc 240
cagcgctgtc acacagtgtc tatgttcaaa gtgcttacaa atggtgtctt cacagcatag 300
ggaagctgaa gccttattcc aggggaaggag aggtgagtca gtagcagtgt ccaatggcag 360
actcagaaag ctgggcagtg acttgctcaa aat 393

```

<210> 54

<211> 398

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. AA135870

<400> 54

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aaaattttaa ataaaatttt attttatctt atactcaagt tcagacaata gcatgtggtg 60
tacattcaaa atttttgaca ggtacagagc acattaaaaa atgaagacat gatcaaggag 120
atgtaagaga caaatagaca acaacattct ccctgaatct ggaaaaaagc aagcaataag 180
atcacgaaag gcagctgtaa aacaggatta ttctgcatgt gttgcccaca actagggcaa 240
ggttatctct catcacaagt acaaagccat tgatgttagt gtgtaacaga gagaaaacag 300
aggatttgta cagctgagga aataaatggc agatgttaca caggaagcaa tataacatgg 360
tcattaagta actgtattca accctcaaat ttaatttt 398

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<210> 55

<211> 390

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. AA135929

<220>

<221> unsure

<222> (1) .. (390)

<223> n = a or c or g or t

<400> 55



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aaagatatca attatatatg tatataaaaa aaaaacctca ctttccccac aaaaagcaca 60
atactgttat cacaaaaaaa atcatcatcc tcataattaa tcacccctagc cacgcagggtg 120
tntttgctgc caaaagatgg gacgacaaat aacgttgacc aggcagaacc cctagacacc 180
ctcggccccac ccacagcctc tccggctgcc gaagacgagg gacgagggca aggcagagtt 240
ctctgagggtc cccaggcctt caccctcatct gtcagtctgt gtcttctagg acagaaggta 300
gttggtttttt tttcttttaa aacgtctgtt caaaataaaa aacaaaagca cacgcgcaag 360
agaagcgggg aggaacggag gctgcctgctg 390

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<210> 56

<211> 511

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. AA142858

<400> 56

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tttttttttt ttttttttca aggggaaact ggggcagttt tattgacgat ggcaatgtac 60
aagactccac acctaggtat gtgcacgagg taaggcctga gctcaggcct tatgatcctc 120
ctcaggaccc ttgggggcaa acttctcctg cagtttcttc cacatgcctt tatctatttc 180
cttaagctct tccaagggtg ctgtggacag gatcagcttg tactcttcca acgacaggcc 240
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cgctaagtct cgtacatctg atcacaggcc tcagggtctgc aacctgggta ttctctccct 360
cccgaaaggc ctgtgctacc cgctgtcgca ggtaagcgcc caagtcccgg ccccgtttgg 420
tctcgtccac tggccattcc tcacagagct taagaaaacg ccggtaccgt gggccgccat 480
ttgggccccg cgtgttcccg cccctcgtgc c 511

```

<210> 57

<211> 341

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. AA147224

<220>

<221> unsure

<222> (1)..(341)

<223> n = a or c or g or t

<400> 57

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aatacatTTTT cacagtgtgc tgaatgtctt tatttacaag atatcattct atagtgaata 60
tgaacaaaac gaatgtgcat gggtgaaata actgcttgat taaaaatgtg ctgtgaagat 120
gaatcactaa tcttttctaat gcaactctgat aacacaataa acatggaaaa atactaatcc 180
cctaatagat cnaaatatag natatagncc cnnaaatatt tcngggggat ggattttcct 240
tcngagggtt cncaaaaagg naaaanggaa atggnntccc ccagccaatg gtttagccaa 300
atattggggg aaatgccccat tccaatggga aaaaccgga t 341

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<210> 58

<211> 561

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. AA149579

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<210> 59
<211> 420
<212> DNA .
<213> Homo sapiens
```

```
<220>  
<221> unsure  
<222> (1) .. (420)  
<223> n = a or c or g or t
```

```
<210> 60
<211> 426
<212> DNA
<213> Homo sapiens
```

```
<220>  
<221> unsure  
<222> (1)..(426)  
<223> n = a or c or g or t
```

22

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ctactataca ttcattcatt gctatatttcc taagaaatgg agcaacctag gagcttatgc 180
tacagtagat tccaatgaac cataatgact acttcaagaa caaagaagca catncaaagg 240
tgtgatatct tcctgttggt ttgagttttc aaacctgaaa ttcttttaaaa tacatttctg 300
ggatttttatt taaatattga tgcnacacac ctaaaaagca gtgacttctt gggtaaaatg 360
taatactgaa atggaaaatt gtcttttcaa aaaaataaga agtgtgggtt ggaattccc 420
cgtgcc 426
```

```
<210> 61
<211> 400
<212> DNA
<213> Homo sapiens
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<220>
<223> Genbank Accession No. AA151428
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<220>
<221> unsure
<222> (1)..(400)
<223> n = a or c or g or t
```

```
<400> 61
cagagagaaa gtgctttatc agccgggctc agcccgacaca cggactcgcc aggagtaggt 60
ggtcagcacg cgctgctggc ggcnaaccacg caggtgtagg tgccctcatt gacggcggtg 120
gcgatgatgc tcaggtgctc ctgccccagg gccaggtagc cggggttagga gaactccagg 180
ggctcctggc ccttgtagca gtacactttc cttttcttgt ggaggatctt ctggccgcag 240
cggaaggcca cgttcctgcc ctcggnacca agcctgggtt tggctctggg gggcggtggn 300
ggtggttggc caccgtgggg aaaggggaat ttcgtagcaa gaaantccgc aagctngctt 360
gggggcaaaa agcttccttt ccantgaagn cccgccggga 400
```

```
<210> 62
<211> 502
<212> DNA
<213> Homo sapiens
```

```
<220>
<223> Genbank Accession No. AA151544
```

```
<220>
<221> unsure
<222> (1)..(502)
<223> n = a or c or g or t
```

```
<400> 62
caggacgagc tgtgggggct gcaccggctc tacggatgcc tcgacaggct gtctgtgtgc 60
gcgtcctggg cnggaggggc ttctgcgacg ctgcccggcg gtcnatgaag aggtctctgcc 120
cagcagctgc gacttctgct acgaattccc cttccccacg gtggccacca acccaccgnc 180
ccccaggac caaaaccagg ctggtgccga ggnaggaacg tgaccttccg ctgcggccag 240
aagatcctcc acaagaaagg gaaagtgtac tggtagaagg accaaggaag cccctggaag 300
ttctcctacc cgggctacct ggcccttggn cgaaggcgca ccttgaagca tcctgcgcaa 360
cgccgtcaat gagggcacct acacctgcgt ggttgcgccg ccagcagcng ttgctgacca 420
cctactcctt ggcgagttcc gtgtgcgggg ctgagcggtc tgaataaagc aatttctctc 480
tgaaaaaaaa aaaaaaaaaa ag 502
```

```
<210> 63
<211> 285
<212> DNA
```

<213> Homo sapiens

<220>

<223> Genbank Accession No. AA152200

<220>

<221> unsure

<222> (1)..(285)

<223> n = a or c or g or t

<400> 63

```
tactcttccc tcttcattta ttttggaatg tgctagaaac agcttgaaac atcccttta 60
tagcttcccg gcctcacgag tgttgaatga catgacgaat tctccttcat agaaggtaca 120
ggtgaaccag aactggaggg gcatttgga tcttcccttc ttcagaaagt gcgatcgcat 180
caagatgcat gtggttttca gtagaactgg cccatgtttc ttgggagcga ggtgtccaaa 240
ccactgttca tccatatttc cnggatgatt tgctccnngg gctca 285
```

<210> 64

<211> 457

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. AA156565

<400> 64

```
atagtaaata ttttaattggt tccatcagca attccagcac aagttttcct ggatggtagg 60
cagaatcaag ctaccaagg gttcatgatg aggtatgggg gtcactgagg agacccccag 120
agtcactgac cctcccgcc acctccacac accaggtggc cctgcagaat gagggttggg 180
ctgatagaat gtcaattagg ggagacagga tacaggggtga gggaacaggg tctagcttgt 240
atatttgcct gcaggaagga gggagggcag gagagactct gcatagaagg actggaacta 300
cacatttaag ttttcaaccc caatatgcag ggggaaacag ccaagccact ctccatctgt 360
ctagtattag gaacctctct tcaagtggtc ttttgtcatc tctgttcttc ttcccaattc 420
tgtattccag attccaaatt ctacaattga aacccaa 457
```

<210> 65

<211> 428

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. AA156897

<400> 65

```
cagacatgga aatataattt taaaaaattt ctctccaacc tccttcaaatt tcagtcacca 60
ctgttatatt accttctcca ggaaccctcc agtggggaag gctgcgatat tagatttctt 120
tgtatgcaaa gtttttggtg aaagctgtgc tcagaggagg tgagaggaga ggaaggagaa 180
aactgcatca taactttaca gaattgaatc tagagtcttc cccgaaaagc ccagaaactt 240
ctctgcagta tctggcttgt ccatctgggc taaggtggct gcttcttccc cagccatgag 300
tcagtttggtg cccatgaata atacacgacc tgttatttcc atgactgctt tactgtattt 360
ttaaggtcaa tatactgtac atttgataat aaaataatat tctcccaaaa aaaaaaaaaa 420
aaaaaaag 428
```

<210> 66

<211> 602

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. AA158262

<220>

<221> unsure

<222> (1)..(602)

<223> n = a or c or g or t

<400> 66

```

ggtcgagctc aggttctgct tgccgggtgc ccagtgaagc cgacagagcc tcgagtgcctt 60
gatcactcat tgtatccttc tccaccttctc ttttcttctc ttgggggtgga gcagcacttc 120
tgactgtccc tgctgactga gcttttaaaa cttctgtaga ttccctctttt tcagtcttct 180
ttccagcagc tgtaggcgac ccacagggtga agtcagatga caaggcgtct atagcatcat 240
ctggccctat ggggttagcc aatagttccc tatatcttgg aggaattgtg acttctcttt 300
tacccaattc ctctatgtag gtggaactca ttggatctga aacttctggt ccagtatacg 360
ttgtatcttc ttcttcagtt tcttcagggtc ctctaaagt atctattaag tcatccaaag 420
cagcatccat gcctgacttt cccgatgggt tatccgggtt agattcaact ggcacagctg 480
gggttaatga tttcttttct ttttcttctg canccggctt gcagatattg cagtataacc 540
agcaacantc tctccaccag cagaaatcat gtcttggtgg ttagtctttg ggtcnggtga 600
tt
602

```

<210> 67

<211> 392

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. AA159025

<400> 67

```

ttgatgtcta gaaacatctt ttatttgggt aacagggtccc aaaacaggtc agttaataaa 60
atagattcta aagaatatgt ccctatgcac agccctccct ccccaaaaat aacgctgggg 120
gtaggcattg cctttccccc ttgggtcctt cgggtgtatt taaaaaaatg ttttggcagc 180
tcagtgttta tcatctgggc atgggacacc atgtccatgt ccccatattc ctaggggtaca 240
gcagcagtag atggctgcaa caaccttctt cctacccag cccagaaaat atttctgccc 300
caccacagga tccgggacca aaataaagag caagcaggcc cccttctctg aggtgctggg 360
tagggctcag tgccacatta ctgtgctttg ag
392

```

<210> 68

<211> 476

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. AA165312

<220>

<221> unsure

<222> (1)..(476)

<223> n = a or c or g or t

<400> 68

```

tcgtnnctc ggttctgaga aataggcact ggcaatttac acatgccttg ctgtgtaatc 60
tcactatatt tgctcaggca aagtgggaga agcagcctta ggttttcatt ctagagatgc 120

```

cggttttccc acctgatcgg cttagagttc acgattgact gttttgggct tcatttcacc 180  
 ctctacataa caagcgggtg gactagatgc cttagcaagg gtccgtgttg tgtgggtgtct 240  
 ccagccacgc actcagctca atcttagcac agttaaaaaa tgcctttcta gcaagttatc 300  
 tgcccagtgc ctgaaaaagt atcatttctt gtgttcaata aaaaagcctc ctaatttaat 360  
 caaggaccta tggagataac tgtcttttag ttgtggcatt gcaaggatac aaatgcagag 420  
 atatttttaa agtgatcctt ctgtaagagt gaaccacga tatgatctgg nagcaa 476

<210> 69

<211> 479

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. AA165313

<220>

<221> unsure

<222> (1)..(479)

<223> n = a or c or g or t

<400> 69

cacaagcccc cacgtccata gccaaagtttt ccccggtttc ccagcagcca gtgacttctg 60  
 tagcattagg attcttatag tagttattgt ctacatttct cagcagattg aatatgtact 120  
 gcctcttact actggactgt ttattcttaa atgtgtacag tatggattta tgtcgtctat 180  
 atattatgca tttatttgtc ttcttcgttg tgatggtaag ctcttgagg gcaagtcttg 240  
 catccactgc tttgtctggca acccgactgg taagcttctg gaaggcaagg cttgcatcca 300  
 gtgctttgct ggcaaccgga ttgctaagta ccgtgtttta agcttagttc agtctcaagt 360  
 gtttgagccc acatctgaag accaataaag caactgctgg gtttatcccn tgggagctga 420  
 cagaatttcc tctcccaa at accatanaca ggaaaatcat aagcctgaat taccgggtg 479

<210> 70

<211> 298

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. AA171939

<220>

<221> unsure

<222> (1)..(298)

<223> n = a or c or g or t

<400> 70

ttttttgagg cacctgtggg actttatttag gtaaacagac cccagctcca gccacaggtt 60  
 ggaccggcca gctgacagtg cggcctcaga caccgccg ccagggtccctc ctccctcctc 120  
 tctcaggggc accagtgtgt gaaagatcgg ggcatgccgg ccacaggggg aagcaggggtt 180  
 caggctgccc cacctgggtc tggcctggc aggcgcccc tcacctggct ctgctgtggg 240  
 anccgagaac aaagacatna cctgcctggc tctgctgccc ccgggggggtc agcnagca 298

<210> 71

<211> 596

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. AA173223

<220>

<221> unsure

<222> (1) .. (596)

<223> n = a or c or g or t

<400> 71

```
tttttttttt ttcagccaaa ttcatatatta ttccagtctc taacactctg ttgttatgtc 60
tgctgtaaga tgatcaggag ttagtatgaa gtattcttct ctacgcacca aagaaaacaa 120
acaaagcaaa cttcaagtca gtgaattagt taccacagtt aaaatgcatt tgattttgtc 180
cttttccttt ttcacaagaa cgacagctga atactcttct atgtgatgcc tgatattttt 240
ctttttcttt ttctctcttt tttgagacag ggtctttaag atgggggtctc gctctgttgc 300
ccaggttgga gtgcagtggg gcaatcttgg ctcatcgcaa cctcagcctc ctgttttcaa 360
gtgattcttc tgactcagcc tcccaggtag ctgggattac aggcattgtgc accgtgcccg 420
gctaattttt gtatttttag tagagatggg ggnttcacca tgttgccag gatggctctc 480
aactcctgac ctgaagtgat ccacccgcct cggcctccca aaagtgctgg ggattaccgg 540
tgtgagccac tgtgccagct ctgatggtga aaatttcngg tacaggccta gcccan 596
```

<210> 72

<211> 408

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. AA180314

<400> 72

```
ttagcaaaaa cagctttttt attgtggtag tttgtggtat gtgctcctgg atcatgcaga 60
aaaaaggctg ggcctcagtt agctccggga gccattctta ggaccctccg gctgcacaca 120
gagaggggct gggtagctgg ctgggctggg gcacgcattc actgggctgg cacaggctga 180
ggggtctctc gcccactatc attaggcccc tccagcccgat tatgctcagc cccgggctca 240
ggatgctcca gggcggtgcc ggtatcagcc tgccagagct gcaccaggtc cgtcgggggtc 300
tttctgcca ggttcttggg catcatgtca gccccatgca ggagcagcag tttgatgatt 360
ttgtagcggt tgagcctcac agcgtcatgc agggcagtat ccctcgtg 408
```

<210> 73

<211> 479

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. AA182030

<220>

<221> unsure

<222> (1) .. (479)

<223> n = a or c or g or t

<400> 73

```
atcatcataa aaaatatatta ttataaaaaa ttatcacatt tctctgtaca tagcataaag 60
acaaaaaac aatgtataca ttaataaatt aagtgggcct gagtattcag tatccatcta 120
ctagaatcct aaagctcttc cccagatttc acaaaggcca atgtagatta tttctatttt 180
atcaaagttc atttgacagc ttgggtgtaat tgagatacta acatttcttt tttctagtgt 240
tttaaagata gttcacagta tttgagttaa ttaattaatc aactgattta aatctttggg 300
aaatacaagt atttacatgt aaaaatgttt agctcaaatt tcagtaaaaa actggaaatg 360
```





```
gtggggacgg ccctctgagc tctccgcgat ggctggcgtg aggtgcctct gagacttctg 240
ggcagccctg ccttccctac tcagtcttcc cgatcttctt gccaccttcc tgtgtggggc 300
agcctcccgc cagtaactca gagggcgctc agagggcagg gttgggggtg gcaagcagcg 360
ggacgtggtc acagcgggta ggggggtggct gccgcagcag ggaaggccgg cgacacagct 420
ccccgtcccg gagcacctcg ggcaggagct tgcgcttggt ctccggaagc agcataaatgc 480
tgaagaatgc agaagagggc gcaagc                                     506
```

```
<210> 77
<211> 513
<212> DNA
<213> Homo sapiens
```

```
<220>
<223> Genbank Accession No. AA193197
```

```
<220>
<221> unsure
<222> (1)..(513)
<223> n = a or c or g or t
```

```
<400> 77
tttttgaatt tgactacttt tacttacaag agacttttcc ccatcaaacg atttccccat 60
ccatttatta cacttctgaa gtaggatttc tgaagtcatc ttatggcatg taattcttag 120
tataatgcac aggattcctg tcattttgaa gcacgaggag aggtttttga tatcttaaac 180
attttttttag tgtagatgca catattctcc acttccaatt gtaatagaaa atcagtttaa 240
ggatacccta atgatgcaaa tgaaatgatt agcaaacaac tcaaatttag gagccttctt 300
tacaatccat tgagtgaaac agattcacia aataatttgt tcaactgaag atttaattta 360
ttattagaaa atgggttttaa actctgatca ttacattgaa gagtcaatga ctgaggtttt 420
cttacctact ggctcatctc ttagacaata acttcttgaa taatttcnac atgagtgtct 480
gtacaagctt ttaaaaaacc gaataaatta aag                                     513
```

```
<210> 78
<211> 499
<212> DNA
<213> Homo sapiens
```

```
<220>
<223> Genbank Accession No. AA195678
```

```
<220>
<221> unsure
<222> (1)..(499)
<223> n = a or c or g or t
```

```
<400> 78
gaaaatttgc ctcttggtaa ccctgtaatg gatggggccc agaaatgaaa tatttgagaa 60
aaacaagtga aaaggtcaag atacaaatgt gtattaaaaa aaaaaagcct attaataggg 120
tttctgcgcg gtgcagggtt gtaaacctgc ntttatcttt taggattatt cctaaatgca 180
tcttctttat aaacttgact tgctatctca gcaagataaa ttatattaaa aaaataagaa 240
tcctgcagtg tttaagggaac tctttttttg taaatcacgg acacctcaat tagcaagaac 300
tgaggggagg gctttttcca ttgtttgatt tttagctaaa gagagggaac 360
ctcatctaag taacatttgc acatgatata gcaaaaaggag ttcatgcaa tactgtcttt 420
ggatattgtt tcagtactgg gtgtttaaag gacaaatagc tgctagaatt caggggtaaa 480
tgtaagtgtt cagaaaacg                                     499
```

```
<210> 79
```

<211> 463  
<212> DNA  
<213> Homo sapiens

<220>  
<223> Genbank Accession No. AA197112

<220>  
<221> unsure  
<222> (1) .. (463)  
<223> n = a or c or g or t

<400> 79  
aaagtataaa gtgttttggg aaaaaaggaa aaaaatctat ataaaaatct cttcacatat 60  
aaaatcctga agaagggtgca aggtgagacc cagtgcgagg ggcgtgctca gatatgcagt 120  
gtgtgtgtgt gtgtgtgtgt gtgtgtatcc gtgtgtacat gtgtgcacgt gtgtcgtatg 180  
tgtctgtgtg tctgtgtgtg tgtgtgtgtg tgtgtgtgtg tgtgtggtgg gtgcaagtgc 240  
acgtgtggcc cacagagggt ggggagaaag cttggctttt tacttccatc caggagggaa 300  
ggagggcggc tggcctcca gccttgagg gtctgcagct gggcgggacc tctactcagc 360  
caggctgttg cgcacgact ccttctcctg gagggcggcc atggcaagac gcaggtgctc 420  
cttcagctgc tcgatctccc gctcagaccg tgtctngatg tga 463

<210> 80  
<211> 404  
<212> DNA  
<213> Homo sapiens

<220>  
<223> Genbank Accession No. AA205376

<400> 80  
aagatttgaa ttttttttat tatcccagca aacattacac tagagaaaat gattgggaaa 60  
atacaataaa gttcattaaa aacacaggct gattattcat atctattaca ttcagaatta 120  
tgcgaaacaa ttagttatat tgcaaagctg taattctttt tctaacaaag catgatttta 180  
taaaacttta atgttgccac tgattcaatt ttaatacaaa atacttatat acacaatata 240  
atataaaaagt aaactgtgta gtgccttcca caaagggata tattaaggcg ctttacaat 300  
ataccaatat tttagcccaa attacttttt gcttttagatt aaaatgaaca ggctaaatgt 360  
tccactttta ataccaaagg gatggtttat taaaaatttt ttat 404

<210> 81  
<211> 523  
<212> DNA  
<213> Homo sapiens

<220>  
<223> Genbank Accession No. AA205724

<220>  
<221> unsure  
<222> (1) .. (523)  
<223> n = a or c or g or t

<400> 81  
cccattgggt gacagcgttt attgaaagga aatcttgctt tatccaggaa ttcactcaca 60  
tggaggtagc tgcaaggaga atgtctcttt ctcatgacaa ccaaagcgac caaaccatac 120  
cctaaagcag agacgcaatg gaataagtca acgggcattg tagaacgaca ctcagaagca 180

```

ggaaaaacca taaaagatac aggatgattg tctcttcagt attgcatttg gccatgtatg 240
tgttttttaca taaaatatat gttttctttt taagctagct aaagaaaata ctcttgatcg 300
ggggttagttc ttaaagcaaa aaacagaaga aaagtatgta tatataatan aattaaagaa 360
cgatagcatg ttatacctgg aaaggaccgt gggcactaat ctgcactttg ttccaggtaa 420
tccatggctc tgagagtggag cacactgtca aagtcactgg ggtgagatga gccgggactt 480
ggaaaaccct ctcttaactt tcagtctcaa ctctctccac tcc
523

```

<210> 82  
 <211> 587  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <223> Genbank Accession No. AA211443

<220>  
 <221> unsure  
 <222> (1) .. (587)  
 <223> n = a or c or g or t

```

<400> 82
catttagtca aatattttatt tgaactcata caaagtttag tgacataatt taaaagggtga 60
agaactaaaa cgcattccaa atattgacca aaatactgta ggaagtagct tgggaaactt 120
ttcatcaaaa tcgttaggca cattgccata tcattctcca taaaatcata tccctcctca 180
aaaccacacc ctccagggtg tgaatttatg ggctaatttg ttctgtgagg tgccaaaaaat 240
gaagataaag taagaaatac agccaactag aaggaagaga tataaatgta caaacaggcc 300
atttctgcta gagtctcagg cattcaggag gttcacaatc atcatacaaa tatataaaat 360
tttagtgagc tattgaatcc atcttctgcc tctttatttc ttcacatcaa tctttttttc 420
ttcctactac tggtcagctt tggggacata ttttaggttc acttttaata ttctggattt 480
ccgatagatt gactgcaggc ccgggagggt cctcgctccn ggaattggct tcttctcctc 540
atccgagggtg ggaggacacc ctctccact tcgggggaca ttctttt
587

```

<210> 83  
 <211> 382  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <223> Genbank Accession No. AA214688

```

<400> 83
gtttgttttg tgggggttaca cgggggttcaa catgcgtatc gaaaagtgtt atttctgttc 60
ggggcccatc tctcctggac acggcatgat gtctgctccg aacgattgca aggtgttcag 120
atthttgcaaa tctaaatgtc ataaaaactt taaagagaag cgcaatcctc gcaaagttag 180
gtggaccaca gcattccgga aagcagctgg taaagagctt acagtggata attcatttga 240
atthtgaaaaa cgtagaaatg aacctatcaa ataccagcga gagctatgga ataaaaactat 300
tgatgcgatg aagagagttg aagaaatcaa acagaagcgc caagctaatt tataatgacc 360
agtttaggaa aataagagct ca
382

```

<210> 84  
 <211> 398  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <223> Genbank Accession No. AA216589

<400> 84  
 cacaaattta agtttggttt atatatttta ttgacatggt tactcaatgt ccacatcatt 60  
 ccattctgcat cgtcttccta caaacagttt ttcttctact attcggttat ttctcctttt 120  
 tttgtttcct atttcagaat caaattttatt ttacttgcaa agtcagtgga atatgggtttg 180  
 gaaccagtag ggctctaac ttaagccag aacctgtcaa agagaagtgc agtatcattg 240  
 ctaagacttg aacagtttat ctctcagaat cttcagttcc tttgaatttc tcagctctta 300  
 gtgtaatctg ttttatgtgt ttgtttaga cttccattta tgggatagat ttccaaaata 360  
 attttggtga atccaactgg gtatttttagc attcccg 398

<210> 85  
 <211> 378  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <223> Genbank Accession No. AA219100

<220>  
 <221> unsure  
 <222> (1)..(378)  
 <223> n = a or c or g or t

<400> 85  
 tttttttttt atgcttgaac taattttattg atgagattct catttctgta gtataaaagg 60  
 aaaatatttt gcagttatct cgtatttgaa agactttgcc atagagaact ttatcagaaa 120  
 tggatgaact tttcattatt tcttataagc atattgggtt tggcctgctt gagtttaaaa 180  
 ctttttttgg tagacntaga atgttaatat ttagataaag aaaatatttt acngaagaca 240  
 ttaccagaaa gtaaaataac ttgaacattt cngtattagc ncnttatcag agaataacat 300  
 ttatttttatt tggaaagtgt tccnaaatat gagacnatch gcnatttctc agacnaagtg 360  
 aaaaatttaa taaaatag 378

<210> 86  
 <211> 444  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <223> Genbank Accession No. AA219304

<220>  
 <221> unsure  
 <222> (1)..(444)  
 <223> n = a or c or g or t

<400> 86  
 gcttgggcaa aagtcttcag aacaaaggct gtgagcaggt gttgccctgg ttctgccat 60  
 atcgctcccc aaaggtgctg taggagccat catagtgttt gtagttcaac tgtctctggt 120  
 aaccagtgtt gagatagcca atggccttga cttgacctct ggagtaagct gctgtgtttc 180  
 atttagataa tccagtacat agatgttagg agcaaagagg accatattct gctctccaca 240  
 gccatagggc atctggagaa gattttgtgt gttttgcatg gcagagctac atatgtctcc 300  
 caaaactgag acagaagctc gggcagattc ttctaccaca tttggtggca gtttcaggga 360  
 taattcttca gaaacctcan cacctgntgg acnaagtagg gagttgaatg ttgtttcctt 420  
 ctctagtctt tcaggttcaa ccaa 444

<210> 87  
 <211> 341

<212> DNA  
 <213> Homo sapiens  
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<220>  
 <221> unsure  
 <222> (1)..(341)  
 <223> n = a or c or g or t

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 tgaaaatata aactcgtttt tgaatacat gtgtcaaagg ctgcccattg taataccttt 180  
 ggtataaaaac ggtaacgatt cccttgacaa acccatccat cacctgacgc acattcacat 240  
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 <213> Homo sapiens

<220>  
 <223> Genbank Accession No. AA227926

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 atacaaccaa aattcaattc aatgcaaagt tgaatgacat catattgcac caaaatttat 180  
 tccatacaaaa agcacatgca tcaagagttt ccataagatg aaaacaaaaca cacttacttc 240  
 atagcatctt accacttact tacacaaata gcccataaac accatctggc attgtgattg 300  
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 <212> DNA  
 <213> Homo sapiens

<220>  
 <223> Genbank Accession No. AA227936

<400> 89  
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 ctgagaagag gggatctgag ggagatccag ggatcaggca ggatagggat ggggcaggac 180  
 atgaggctgg gggatgcaga ggttaggtgg gagaggctac cggagtaaga atgaggctgg 240  
 taggggaggg agaaagagag caaagagaga gaggagcaat tggggggccag ctggagagct 300  
 cagatggagc aggtcaggag gtggaacaat ggcagagtga ggggtggagg cgagtggtct 360  
 ggagagggcg aaatgagaag gctggggaga aagaagaggg tggcagctct ggtgcagggc 420  
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<210> 90  
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 <212> DNA

[illegible]

<223> Genbank Accession No. AA232266

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actgtattag	tatccaccac	caccatcaca	ggggagggtc	agctgtcact	ggggtcagga	180
gtactctcca	ttattgtgca	ggggaccaga	cagcattttg	gtgtgacgat	gtcaaaactga	240
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ttggttactc	ttaatctctt	ccaggctgtg	ctggatccca	tagccgaagt	agatagcaaa	360
gccaatcagc	atccagaccc	caaatcgggc	ccaggtagca	gctgtcatct	gcatacataag	420
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<211> 401

<213> Homo sapiens

<223> Genbank Accession No. AA232508

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tgtgcattca	gggcctctgc	aggctcacac	agggagtctg	aggggatagt	gtttaagtga	120
gcactcaggc	ttcctctgag	gaaaagaaat	gaccaaagtg	cagactttta	ttactgccat	180
tctgtctct	aatgggagca	ggagtcaaaa	ggaaaaacaa	attaaaagg	gctaattgaga	240
aaggaggaga	gatgagacag	agagtgtgaa	gggctatgcg	cgtggcatct	cataaattct	300
tattgagaat	ggcacaggta	ttaaaaaagt	ttctgggtag	tctacgagaa	atgtcaatta	360
ttatctctac	tacaactact	tacatatatc	taatgggaaa	a		401

<211> 387

<213> Homo sapiens

<223> Genbank Accession No. AA233347

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gcatatacat	ttgtagggt	gtatctatcc	aattctgcct	gtaacaaaca	cccaaacatc	180
ctaaaatatc	aattataaga	cagacaagt	taatgtaaaa	ctctggagaa	catcaaagaa	240
aaatggccat	gcatctgtct	tttaatgttt	tcttacgata	tattaaaata	aaaacaaagt	300
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<211> 403

<213> Homo sapiens

<223> Genbank Accession No. AA234095



<212> DNA  
<213> Homo sapiens

<220>  
<223> Genbank Accession No. AA235618

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aaaattcatt ctaagaaaac ttggcaaatg aaactttgga ctggaattgg catttctttc 180  
tctgcttttc gttccaccca tttctttctt ttatactaca gtattcatat tttaaaatgt 240  
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aatgactct ttaaaataaa gtttttagaga aactatatta tggatagggc tgatttacat 360  
tttcaaattt tctaaaatca gc 382

<210> 98  
<211> 175  
<212> DNA  
<213> Homo sapiens

<220>  
<223> Genbank Accession No. AA236241

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cagctgcctt gccctgactc acttctcagc acccatctta cggcagtcgg ccctg 175

<210> 99  
<211> 401  
<212> DNA  
<213> Homo sapiens

<220>  
<223> Genbank Accession No. AA236455

<400> 99  
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ccctgccagc ccagagtcct tagtcggata atgtatcaca gatacaacag tcgagcaacc 180  
acgagagcgt tagtgcgaca gaggcctctg tcctccctct tctcaaagtc ccatgattct 240  
gtcaaggtaa tattgccaat aatcattcac atttcacgtg gtttttagaca cgcagggttat 300  
tcagacagac acagacaaca aaacaagcct caaagccaga acaaaacaaa acaaaaccaa 360  
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<210> 100  
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<212> DNA  
<213> Homo sapiens

<220>  
<223> Genbank Accession No. AA236476

<220>  
<221> unsure  
<222> (1) .. (533)



<223> n = a or c or g or t

<400> 100

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gtatactatt tcaaataat ccatacataa tcaaataatag ctgtagtaca tgttttcatt 180
ggtgtagatt accacaaatg caaggcaaca tgtgtagatc tcttgtctta ttcttttgtc 240
tataatactg tattgtgtag tccaagctct cggtagtcca gccactgtga aacatgctcc 300
ctttagatta acctcgtgga cgctcttgtt gtattgtctg aactgtagtg ccctgtattt 360
tgcttctgtc tgtgaattct gttgcttctg gggcatttcc ttgtgatgca gaggaccacc 420
acacagatga cagcaatctg aattgttcca atcacagctg cgattaagac atactgaaat 480
cgtacaggac cgggaacaac gtataganca ctgtagtcct ttttttcaca gtg 533

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<210> 101

<211> 308

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. AA236545

<400> 101

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ccaagtggct gggtaatcta tgggttatat tttcatttac cctcaaagct aggctgccag 120
tggaagctaa gaataacaca attaaattca agtttctcta gaaaatatga caaatcaaat 180
tttaagaaag tgtaacttgt ggttttgctt tggttcaaga tggctgatct gagaatatca 240
aagcatttaa ttcaaactaa tagtgtgtcc tcaccttagg actagaaggt aatttttctt 300
ttaaggag 308

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<210> 102

<211> 297

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. AA247204

<400> 102

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cgagaccgcc ctagagataa cagacgagac agagagcgag atagaggacg tgatagagaa 180
agagaaagag agcgattatg tgatcgagac agagaccgag gggagagagg tcgatataga 240
agataatggg cttttggaag cactgattgt ttaaagatac aaaaaatctt gtattttt 297

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<210> 103

<211> 342

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. AA248555

<400> 103

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tctcacaggt agaatgaact gtgtactggc cacatatgga agcattgcat tgattgtctt 180

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atattttcaag ttaaggtcca aaaaaactcca gctgtgaaag cacataatgg atttttaaact 240  
gtctacgggt ctaacctcat ctgtaagttc catgcctgga gaagctaata ccacctaatac 300  
akgtgataat tcaatttgta caataaatta tgacctggaa aa 342

<210> 104

<211> 458

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. AA250850

<400> 104

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gtcccgactc ctctcgggag cctggaggag tcccggtagc gaatagatca gatgcctcat 180  
cctcgttcac cccaaaaggc tgagaccctg gtgtgtcctc ctcgaggacc ctccctgttt 240  
ctgggtgcta gaggccgttg ctgtttctgt gacagaggga tggctttggg agctccaaag 300  
aacctaacca agttttttta agaaattcgg gggacgaagc aataaccgct tggccccctt 360  
gaaagtttcg ttcaaaacttt tttcaactgt aaaaaactgg ttaatctcaa attgtaaaaa 420  
aattttttcc ccccttattt tgaaaaaatg catttttt 458

<210> 105

<211> 410

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. AA250958

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tcctccacac tgtgtcctc aggcaataga tgattggcta tttctttacc tctgttttt 180  
gcctaattag catttttagt agctctctga ttgggtgggt gtgagctaag ttgcaagccc 240  
cgtgttttaa ggtggatgcg gtcaccttcc cagctagggt tagggattct taatcggcct 300  
aggaaatcca gctagtctcg tctctcagtc cctctctca acaggaaaac ccaagtgtctg 360  
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<210> 106

<211> 372

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. AA251769

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tgtccagta atgccaactt ggaggtgaag ggctgactgg ggcagctgag aagtgggacc 180  
ttctgtttgg caggcttcct ctcccttgcc tggtcattgt tttctgggtga gaagagtgtt 240  
cctggccttg ctggaggttc ccatggcccc gaactaacag tgtttttctg aaatttcgac 300  
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ttcagcctct gg 372

<210> 107  
 <211> 389  
 <212> DNA  
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<220>  
 <223> Genbank Accession No. AA252219

<400> 107  
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 caataatacc agggagctga gtaatctaata acaaagcaag acaaagccag ggtcactgga 180  
 agcagcagtg gtcttttctga ggaagttgca gctgatcacc aacctgaatg aagtgatgta 240  
 atggaaaata gaagtgtttg aaggaagatt gcttttagtaa ctgaggagga gagaggaaaag 300  
 aggagaaaact gcacaagtgg gtagagatgg gaaagtccat ggcctatggg gaaggtgagg 360  
 aagttgactt ttatttttcaa tgtgccgtg 389

<210> 108  
 <211> 281  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <223> Genbank Accession No. AA252528

<400> 108  
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 ttagggcaca ctgccctgcc ggcatagcca cagcttcacc acccaggaag ctatgctgag 180  
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 <211> 412  
 <212> DNA  
 <213> Homo sapiens

<220>  
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 aggttccagg tgctgaaaat gaacaattac atacaggaat agaggcctac tctgcactta 180  
 aaaatatctt caaaaaagtt gctggtcaag gagtatgcag caatggtcct tcctgttgtg 240  
 aacattgagt cctagtgggt gaggtgtggg ttgttactat taaaaatcct tgttgtattg 300  
 ggcacaagat agactgaaat tgactgtagt cctcacggtg agtctaattg cagcaacatg 360  
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<210> 110  
 <211> 326  
 <212> DNA  
 <213> Homo sapiens

<220>  
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atgccatact gctagagatg agggaaagaga gcccgaagca ggaaaacatt gatttgctgt 180  
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ctggtggtcc tcgggcaggg gcggct 326

<210> 111  
<211> 410  
<212> DNA  
<213> Homo sapiens

<220>  
<223> Genbank Accession No. AA256268

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gcattgagta tatttcataa gttgttgact agcaaagata caatcattag taacccaagt 240  
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taaaattggc aactatgata aataccttca aaaggatgta gatgtaatgg agatgtttta 360  
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<210> 112  
<211> 355  
<212> DNA  
<213> Homo sapiens

<220>  
<223> Genbank Accession No. AA256294

<400> 112  
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cggcccgctg cgcgcgctg ctggacggca cttcagggca caaccacac gcgtcttttg 180  
acttcagac attccgcgag gcttctggcc tctcgaaggc aaagcttttc agcgatttca 240  
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<210> 113  
<211> 196  
<212> DNA  
<213> Homo sapiens

<220>  
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aatgtgtatt gaaacc 196

<210> 114

<211> 284  
<212> DNA  
<213> Homo sapiens

<220>  
<223> Genbank Accession No. AA258476

<400> 114  
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ggaatcggta gcctcttttg tatggccact atgggtgtag acactgtcta cggtgtttgc 180  
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<210> 115  
<211> 377  
<212> DNA  
<213> Homo sapiens

<220>  
<223> Genbank Accession No. AA261907

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aaaaaaaaac caccagaagt tgctccaga taacgatgta gtggcagcat gataactggc 300  
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<211> 181  
<212> DNA  
<213> Homo sapiens

<220>  
<223> Genbank Accession No. AA278767

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<210> 117  
<211> 419  
<212> DNA  
<213> Homo sapiens

<220>  
<223> Genbank Accession No. AA279313

<400> 117  
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ctttattctt gttggtttgc tttgaatccg ctccgtgtaa agtcagctaa ctctctcggt 180
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aatgtctttg ggctctccct cccctcgggtg tttgtacttt tctggggccg ttgcgggggtg 300
gcaaccgggg gctgagtcct aaccgggtcc ttggggcaac cgtcgctctc cagtgaagct 360
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<210> 118

<211> 513

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. AA279757

<400> 118

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agccctcaca ttctcttgat ggaaaaaagt tttgtcaacg atattttcaa tctgctttgc 180
ttttttattt ctgcctagct gcatttttat ttcactactg ttcattttgt tctctaggag 240
tcgctggtgt tgatgctgaa aagttacagg atctcttcca ggaggaggat ggcagtacag 300
cagcttacca ctgacatagt ccttcaggat gtagcgcgca gatcgaggct ggtctggctg 360
tccatgcgct gtcataatc ctgcgatgta tccataagct gtcaacagtt cttccgatgt 420
tggaggctcg tggggatctt catcctctct aggcgttatg atgttaatgc cataggtagc 480
ttctaaaaca tgtcttgga tattctggca aac 513

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<210> 119

<211> 256

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. AA279760

<400> 119

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atgcaactag agaacatcag ataaattata gtaatttggt tttaaaaatc cattaaacta 180
tctcttacct ctgcaataat gtatcatata tgcagttaca gaagttagta gggaaaagca 240
tgatcttctt tcccta 256

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<210> 120

<211> 367

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. AA280929

<400> 120

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taagttgcag acatcttgac ccactactcc ttactattcc agtgtctatt tcttatatac 180
aaaggggaatc taccaggtaa tcatagtaca acaatcaaaa cctggatggt aatactgac 240
caatatgaat ataggatcct caggtgccat tcaacatttt gcctcttctc ctttatattt 300
taaaattata tatgactact tacatttttc tagaagaaaa aatagaacaa taaatcacia 360
aatgcc 367

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<210> 121  
 <211> 427  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <223> Genbank Accession No. AA281145

<400> 121  
 aacagtgaga tccaccttta ttgaaacatc acacggcagc atcagggctc ccacacctca 60  
 cagggcagca ggcagttcac aggacagcag gcagttcaca gggctttggg ggcttcacag 120  
 ggcagcaggt gggttcacag gcttcggggg gcctcacagg gcttcggggg gcctcacagg 180  
 gctgcagggg gttcacagag cttcaggggc ctcacagagc ttcaggggcc tcacaggact 240  
 gcaggggggc tcacagggcc ctgtatgcag ggctgctggt acaaagaaga ggcccagaga 300  
 accctaacac agcctggggc cccggggaag tcagggcttc cagcagggca ggtacagagg 360  
 cccttaggac ttggcaggag ctcagccttg gggacagtcc cacggaagac gctgcatccg 420  
 ggctctt 427

<210> 122  
 <211> 257  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <223> Genbank Accession No. AA281345

<400> 122  
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 ggaagaaccc ctcccagat tggcccagtt tcaccagcaa ctggtctcag ctcagcctta 180  
 tgcctttcca ctgacacccc ccacccctcc acattctcga tgattcagac caggaacttc 240  
 tcggctgatt gtgtccg 257

<210> 123  
 <211> 365  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <223> Genbank Accession No. AA281591

<400> 123  
 tttttttaat tattccttca tattcaaact tcacaaacag tgtgaacttg tacaatacct 60  
 cggaaagtga aacttacaaa aaaagtgctg gtaacattta aaaaaaaaaac aacaaaaacc 120  
 ccaaaaaaac aaacatcatt cttagcaaca tcaattactc ttccacacaa aacagaaacc 180  
 ttgtaaaatt tattttcgtg tttttaaggc gtaatacttc cgtataaagt atatgcaaga 240  
 gataaaactt cacagtattc caaaatgtca caataataat aataatataa tagtataatg 300  
 aagcgctaca gttaattttt ctttttttga atgttttttt tcctgtttta ataacaaata 360  
 caagt 365

<210> 124  
 <211> 369  
 <212> DNA  
 <213> Homo sapiens

<220>

<223> Genbank Accession No. AA281599

<400> 124

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gaaaaggcat acaaatttat taaggtagag ggctgaggac cacagaatat taccccaacc 60
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gtagacaatt ctttgaggaa cagtaaataa ttattagaga gaaggaatgg accaaggaga 180
cagaaattaa cttgtaaatg attctctttg gaatctgaat gagatcaaga ggccagcttt 240
agcttgtgga aaagtccatc taggtatggt tgcattctcg tcttcttttc tgcagtagat 300
aatgaggtaa ccgaaggcaa ttgtgcttct tttgataaga agctttcttg gtcatatcag 360
gaaattcca                                     369

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<210> 125

<211> 375

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. AA282247

<400> 125

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tttttttttt tttttttact tttagttcac attttttaat gtttaaaaac tatgttaaca 60
gagcagttat agaacagAAC ttcttatatt tctttattta caccacactc tgaaaaaaaa 120
aaccagttc tatttgatta actatgaata gcaaagtttt gtgacttggt actacttaa 180
atcacccatc tgaaattcat ttacaagggt tttacattaa taaaacagta gtgtggtaca 240
tgtattggac tcagatgaag tctaaagtac actggactct agagagtgga ttacatacca 300
acgaccaaga ttcaagtgtt tggggaaaaa aataccttag acagtctatg ttggcgtcaa 360
cactaaaata aaagg                                     375

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<210> 126

<211> 242

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. AA284153

<400> 126

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tgcacaaaaa agagcagtaa aataaatact cagaactttc ccaggttggt aactattaaa 60
ataaaacctc agcatttcaa aaaagcttat tccgctgcag gaaagaagggt ggacattttt 120
ggtaccataa taaatcacac actcacacat ccatattgct taggttgaag agaacggaat 180
gaacagagga aatttcttcc atgaattgcc ctcttttcggt taccgcat gttttagtta 240
cc                                     242

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<210> 127

<211> 428

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. AA284879

<400> 127

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tttttttttt gattagtcaa atatttttat ttgccaag aactctaaaa gcctttggtg 60
attcccaaac atacaatgaa ccccaataa aacaaaacca aattgcacta ttacaaagga 120
acaagtccat gaaagtagag aggaggcgcc agttaaggga cagcaacttc aaggagacgg 180
ttgttttttc gtttacatgt tgggacactc ccatttttct ggtttccttg aataaacttc 240

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acacatactt tgtccggtct gaacaggtcc agggctccac cggaaactcc aatattgagc 300  
ctccggttgg gtttggccta aaatttttgc ggaagaacct ggggtgggcca tttcaaacca 360  
agtggatccc tcctgaaaag aaaagtcccc ttactaactg cttctgagcc ctcctttaag 420  
tggaacggc 428

<210> 128

<211> 425

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. AA284920

<400> 128

ataaagattt cctccaagcc acatgaggac tctggcaccc acccaciaag caagacctgt 60  
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ccgtccccac cccccctcc accgctgggc ccatcagtggt gtgttggggg gatgcttgca 180  
gctgggggtg aggagacaac aaacctcggg aactggagcc agagctgcgg cctgactgac 240  
gccttttgat gctcacggga aatttctgcc caggatctca gccccaggct ggttgtttct 300  
acaaatctct ctcaaagtga ttatttttggg gacaaaaatg aaggagcttt gtaaattttt 360  
ttaaatttat gaatcatatc aagtagttgt ttacatttct tgaaaaaata ggaactcggg 420  
cagca 425

<210> 129

<211> 405

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. AA287389

<400> 129

caaaataatt aaccttttta attttttaaa ggaaaaatac tctccatagg aaggcatttc 60  
tattttttgt ccatcagtag ccaaattggaa cttgatataa acacttccag tatgccaaact 120  
ttggtttaat gcacaacttt gaaaataact cattaaaaca cacatcaaga tgctactaac 180  
aaattcatta atatccaaga ttcattactg tatgtcaaag gtcattccagg attaacattt 240  
tcattacaat gaactgtgaa attccaatga aaaatgtttg cctgaattaa attatttaatt 300  
ctctcaaatt ggaagtctag cactcttgaa aatcaaattc acacacacac agacacacac 360  
acacacactt acaaactgca cattaggaca tgagggcaat ttaat 405

<210> 130

<211> 478

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. AA287832

<220>

<221> unsure

<222> (1) .. (478)

<223> n = a or c or g or t

<400> 130

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acagcgacag tgatgactcc aaaaaaatg tttagaatta gaagtgcattg ttaatctgag 120



<211> 424  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <223> Genbank Accession No. AA293489

<400> 134  
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 ccccgagcctg ggcccaggca accaagggtc caatgctggg aaggagagca ggggaggtgg 120  
 gcttagtggtt aaggcgtgaa gggcgaggcc agacagctgg aggcctgggc ctccactctc 180  
 catttccatc acccttcgga ggctgaagga agggcggcgg caccacaggg cccttcccct 240  
 ctgctgcatc atctcctgct caggctttct ctctaggcgc attggaggaa tcctctttcc 300  
 ctgtcggaac ctcaacactg tacagaactc caaccataac ccttctagct tcctctoccca 360  
 actgcatcgc tcctcctctg ttccatagat ccccggtctt catcccttct ggctctaagc 420  
 aagg 424

<210> 135  
 <211> 340  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <223> Genbank Accession No. AA298981

<220>  
 <221> unsure  
 <222> (1) .. (340)  
 <223> n = a or c or g or t

<400> 135  
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 agactgtgaa cagcttgctg tcaattcttc acctcttcca ctcttctct cactgtgtta 120  
 ctgctttgca aagaccggg agctggcggg gaaccttggg agtagctagt ttgctttttn 180  
 cgtacacaga gaaggctatg taaacaaacc acagcaggat cgaagggttt ttagagaatg 240  
 tgtttcaaaa ccatgcctgg tattttcaac cataaaagaa gtttcagttg tccttaaatt 300  
 tgtataacgg tttaattctg tcttgttcat ttgagtattt 340

<210> 136  
 <211> 535  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <223> Genbank Accession No. AA308998

<400> 136  
 aggtcttact tcaggtgctg ctataatgcc tcatctaate aggactaaat tgtgtaggaa 60  
 actgcagtgg gaagaatatg ctttctgctc aggttaagag ggctactgat ctgtccttag 120  
 aaattcagag taacatgagc aaaacctcag ctaaaaccca ttaagtggc atggattgtg 180  
 catgatcttt gataagaatt cctcatgtac ttgtgcctag ttttcaagg tattggctgt 240  
 tctatagatg cagtgtattgt cccagctagc tctgttaccg gccttttggg gtgtctttat 300  
 gttcatttgg agagtcaggc cgaaagacag gtgatgtagc acttctgttt ttaataatta 360  
 ttgcttaaaa tacctattaa tagttttggg tcattttaaag ggacttgagg aagctaccca 420  
 ggattacaga agagtgtcca cctaacaaga tgggtctggc gtttcttagt tttgtatctg 480  
 gttcaataga aatatgtgaa agtggtaatg tcatcatttg atgcagagtc cgggg 535

<210> 137  
 <211> 324  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <223> Genbank Accession No. AA312946

<220>  
 <221> unsure  
 <222> (1)..(324)  
 <223> n = a or c or g or t

<400> 137  
 gaagttaaag gncactttat tnactgacag attgaaaact gtaactccag gnagtgc aaa 60  
 atgcaccaca acccaattac aaagaacagg tgtaacaca caatgtttta acaatgctac 120  
 actcattttt ggcaaagtgc tgtattgttc agtctgtgta caaaactgac catctatgan 180  
 ccaatcagta taaaaaattt ctataaaanc aaaatttagn cagtggctca agaaaacaag 240  
 ctgccattta tgcatagnnt gatgtacagn aacctaacca aatgtccctt ttgaattttc 300  
 aagttactga aaaaaaatgt gtcg 324

<210> 138  
 <211> 428  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <223> Genbank Accession No. AA316686

<400> 138  
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 cacggaaaca tgacagcggg gcggcggact tggagcgggt caccgactat gcagaggaga 120  
 aggagatcca gagttccaat ctggagacgg ccattgtctgt gattggagac agaagggtccc 180  
 gggagcagaa agccaaacag gagcgggaga aagaactggc aaaagtcact atcaagaagg 240  
 aagatctgga gctaataatg actgagatgg agatatctcg agcagcagca gaacgcagtt 300  
 tgcgggaaca catgggcaac gtggtagagg cgcttattgc cctaaccaac tgatgcgtgc 360  
 tttctcaaat atacctactg gattaattta tggcaataaa attttttttt gtcttttttc 420  
 gttttatc 428

<210> 139  
 <211> 160  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <223> Genbank Accession No. AA328993

<220>  
 <221> unsure  
 <222> (1)..(160)  
 <223> n = a or c or g or t

<400> 139  
 gcttttagagc agttatggga gttatagatt ataacatatt agtgatttgt gaaacttttt 60  
 tactaaaatg tgacctcat ttttctttac atgaaagaac atagaatatt tcacaatgca 120  
 tcccacgtgg taagaataaa aaattgtttt agttatatgt 160

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<210> 140
<211> 359
<212> DNA
<213> Homo sapiens
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<220>  
<223> Genbank Accession No. AA342337

<400>	140						
agagataaacc	agttttatttt	ggggagcaaa	gagaaagggt	ccctaacccc	agactgcctg	60	
cgaagagggtg	aaatggaatt	gaatgggatt	atggtcagcc	aaggcttcct	agtggagctg	120	
ctacctganc	tgagtttttaa	gaggggtagg	aaagaaaaaa	tgtagtgggt	cataatggca	180	
ttccagataac	aggggacaca	aacagctctg	tgtttatgaa	ctacaaccag	ttggtgactt	240	
ttgtttcatac	tggtctccct	tccccagctg	tgtgtggacg	atggactgaa	gaggagaagg	300	
ctgqqaqcaa	qqqaccagta	aqctgtttqa	qcaqtqcagg	tgaqatatga	qqcctcaac	359	

<220>  
<223> Genbank Accession No. AA347359

<400>	141						
gtgttgcaaa	gcctttaatt	agaatgtttg	tatttttttac	atcatgcata	acttcacatt	60	
tgtgattaat	tagtaattat	ttcaatactt	gtaagcncat	ctgcctcaga	tttaatcata	120	
atacatgaat	taaattaact	aaattaagga	acagcaattt	agaaagaaac	acactttaag	180	
aaatcaaaa	tctcaattca	ggcagtcctg	tctctatcat	tggtattcta	ctcctttaaa	240	
aatttcatat	tgcccaacaa	aaagtgggta	tttttactgt	ttttggagat	gactgaacag	300	
atgaagggca	tcagatgcct	tcatcagctg	ggtattttgc	ctaaga		346	

<220>  
<223> Genbank Accession No. AA350265

caatagcaga cttttaatca atgccagaga caaagtgagg ccgagctaag aacacgctca 60  
gctncgttac aatgaagaaa tggtttcctt tcgatgcaaa gtataattgt aaaccacagt 120  
gctcgcacag ttcacgnctg nttaaagnga aatcttagcc atacatcacc taaaagtaat 180  
taaaaagtca acacag 196

<210> 143  
<211> 286  
<212> DNA  
<213> Homo sapiens

<220>  
<223> Genbank Accession No. AA358038

<220>  
<221> unsure  
<222> (1) .. (286)  
<223> n = a or c or g or t

<400> 143  
cagggtatatt ctctttctcc tttttaatgt agagctgcag atacacttaa gttgccatag 60  
taatggcaga aggaggggaag ggtgttttct ttgtaaaatc attggngtat acaggatggc 120  
ttggcaggta acaacactat ttctacgata tctacttatt aatataattt tatgttaata 180  
tccattcttc ctcaccataa tcaccataat gttcaaattt taattttgta ttcattttga 240  
atgtttgcat gtgaaaaccc aactaatcta ttatttcaac attaaag 286

<210> 144  
<211> 287  
<212> DNA  
<213> Homo sapiens

<220>  
<223> Genbank Accession No. AA374109

<220>  
<221> unsure  
<222> (1) .. (287)  
<223> n = a or c or g or t

<400> 144  
cgccgaccat ctctgcactg aagggccctc tgggtggccgg cacggggcatt gggaaacagc 60  
ctctctcttt cccaaccttg cttcttaggg gcccccgtgt cccgtctgct ctcagcctcc 120  
tctctctgca ggataaagtc atccccaagg ctccagctac tctaaattat gtctccttat 180  
aagttattgc tgctccagga gattgtcctt catcgctccag gggcctggnt cccacgtggg 240  
tgcagatacc tcagacctgg tgctctaggc tgtgctgagc ccactct 287

<210> 145  
<211> 292  
<212> DNA  
<213> Homo sapiens

<220>  
<223> Genbank Accession No. AA380393

<220>  
<221> unsure  
<222> (1) .. (292)

catggagtgca	gggacatggt	taattcattt	gtgaatcccc	tggtagctggc	acatagaaaag	60
cgtcccatat	tatctgcaaa	atgaatgant	gaataaatga	gcaagtaggt	gaatgantga	120
ttctnagggt	tctctcagct	ttgatggcct	atgaccgtgt	gactcctgca	tatgcatgan	180
cacagagaca	cagacactac	acacatgcac	agacacgat	acacacttgg	ngcaaagagg	240
gatgaagcct	gccacactgc	aggtgggtcct	agctgcctga	cctcccttcc	tt	292

<213> Homo sapiens

<223> Genbank Accession No. AA382275

<223> n = a or c or g or t

aaataataaaa	tgaaagatatt	tattcatctt	tgtagataac	aagcactcaa	aggttaatga	60
gtgaaggaga	taaccatctc	ctccaaacaa	agnngctctt	aataacgcag	aagcaaaaat	120
ctttccactt	ttagatgaaa	acaaactaaa	aaataaacttc	aggcttcaga	tatggaaaata	180
aagcaccatt	tttcaaattg	tagacttggc	ttacttaaaa	taagtaaata	gccccgcnct	240
atctgaaaaa	gaaaaa					255

<213> Homo sapiens

<223> Genbank Accession No. AA386264

<223> n = a or c or g or t

tattttaata	actgtagaaa	tccaaaagaa	ttagcatcaa	atcttgaagt	cgtgagtnaa	60
gctgcgggtt	ggcttgactg	ggctcagcca	ctgagctgcc	tcaaccggcc	aaggaacggg	120
attatgatga	ctatgcggac	ttctatattg	tcttcatctc	attgtgtgta	ttatgtattt	180
agtttcaata	aagcatttgt	accaatggct	ctggagcttg	gaggaagact	aaaggaatgt	240
gtagtgattc	tgaagtaaga	tgtagaccta	cgcagcagag	ctatggggga	gaagattaac	300
aaagtccctt	cttccaatat	caggatagtc	atgagttgca	gtcccatcca	aaaggtcatt	360
agggctnaaa	ggccctctgt	gtctctgaac	tatgagattc	ttgctcc		407

<213> Homo sapiens

<220>  
<223> Genbank Accession No. AA386386

<220>  
<221> unsure  
<222> (1)..(205)  
<223> n = a or c or g or t

<400> 148  
ggngggtaaaa ttncactttt atttggccaa tgtgttcaat tcgattgtna aatagaaatg 60  
cctganganc tgnagcgtc tgattcagct ccagcatcct tcttcaggcc aaagaactcg 120  
aggatgcgct gggtgtcggg gtggctcgctg tcgatgaaga tgaacaggat cttgcccttg 180  
aagctctcgg ctgctgtttt gaagt 205

<210> 149  
<211> 440  
<212> DNA  
<213> Homo sapiens

<220>  
<223> Genbank Accession No. AA397919

<400> 149  
ttttctgttt aagaacagct gggtttattct tttgatttat tgtaggtatt aaaagtttct 60  
tttgtgagat ggcacatagg cagggttggt gtttcctaac actatgaata tcttaaattg 120  
cttttgaaag ttttatccac aaagaaagaa aaataagggt ttcctcacag ttgaaaatag 180  
tttttgaaaa aagggttaaga ggaaaaaaat cttaaatacca tccttgataa agaaatggaa 240  
cttcaagtta aaaatacaaaa tttaaatgaa gttttataaa atattaaaaa ctagctaaaa 300  
gtacatgcat aggcatttaa tcaaggtaag aggaacagca gtggaactta aatatgatac 360  
aatattatcaa caataaataa acatttcagt gcaaatagtg cagaaaaatt tctcaaagat 420  
catagcaatc attctaatacg 440

<210> 150  
<211> 425  
<212> DNA  
<213> Homo sapiens

<220>  
<223> Genbank Accession No. AA398280

<400> 150  
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caacccccca ggcacttcac tgtaggacag ttagcaccaa gagctaagggt tgtgagataa 120  
tgcaaatctg gcctgtcacc tctgcagagt acagggtccc atactgtgag gcagcagcag 180  
cagagggaac caccagagaa acagcatttc agaattgtct ttcctttggt gtatggatat 240  
gtgtgtgttc tagtcttttg tgggcaatgg aatctgcagc tccatgacaa tcttggttaag 300  
tagcttatgt gggaagtgtt tcaggtcaca agggccaccc attctaaggc ttctcactta 360  
attccccagg ctaagagaca ggtggggaaa ggaaaaacct agcaccttgc tatactgaat 420  
tgga 425

<210> 151  
<211> 382  
<212> DNA  
<213> Homo sapiens

<220>



<223> Genbank Accession No. AA398903

<400> 151

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tttaaattag tagagacagg gaatcttact atgtgaccca gactgggtctt caattcctgg 60
gctcaagcga tcctctcgcc tcagcctccc aagggtgggt tatatgctg acgcgctgtg 120
cccgggtcca aagaacattt cttaagattg gtgggtgcaag gatcacacct tgagaaacac 180
tgatttaggc cttccacag tacaaagaaa tgttgctgc cccatcctta cagcacacct 240
gatgacttac aagagggtgct gctgaattcc tcccaggga gcaaccttaa ttcttctcag 300
caagacaagg aggcagcctt caggaaggac ccaggagctt ggtatttagag gatgatccaa 360
gtctgatggc aaatttagag tg                                     382
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<210> 152

<211> 449

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. AA398908

<400> 152

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tgccactgg tctgggggtca gggttttctg ttcaaaggca tggatgtgcg ggactcttct 120
gctaggcacg cgttcaccag cctgtgtctc tgaagcagcg gtttcccctc gaacttggcc 180
gacaccacca ggactcggaa gctacaggag caacgggtga gggtcgtgtc ctccacctcc 240
acatgctccg cctccagggtc ccgctgcagc ttctcgcgga ggtattcggc gctgagttcc 300
atggcggcag tccagctgga acggcagccc agcagggaca caaccccagc tcgggcgccc 360
gcacgctacc ttgctgcctt acaggagcca cttccgctgg aaaactcact tccgccttac 420
taaggcgtac gtcaacgcag tacttccgc                                     449
```

<210> 153

<211> 333

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. AA399273

<400> 153

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aactggaata catggaatga aggggctgat atgggacccc aggtaagagt gaggtcagga 120
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gccgggttg gtccgggggc agcatggcat cggacgtggt gccgtctgtg cctctcctgc 240
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<223> Genbank Accession No. AA401433

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caatatttcc aatgcactta acatccagac ttattatttt gaagcaaatt ccaagaatca 180  
 tatcatatca gccacagatg tttgagaatg tagatgagga cccttctttc taacataatg 240  
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 ataaatgtat tcgttttaca gttcggtcaa atcacaattc aaataagatc caattaacaa 360  
 ttggttaata tgtctcttaa gtctctttaa atctataggt tcctcctcca tctttcatcc 420  
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<211> 378

<212> DNA

<213> Homo sapiens

<220>

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<400> 155

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 cctgtctgggg gagaaggagg ctctgggacaa agtgggagaa gtgctgggaa gggctgagcg 180  
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 gggacctcgc tgctaactct tgttgtgggg ggggtgtcctt agtgctgcca cctggagggc 300  
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<211> 641

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<213> Homo sapiens

<220>

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 ttatacagaa cacatttact caggaccctg cagtgtcagc ttctgtcttt gggatgcag 180  
 ccttctatct ggatctctgc aggccagcca gaatatctgt tgttcttagc atcagagtgg 240  
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 cagctagacc tgaatttcat gttcctgatt tctttacttc caagtgttc tatggcattc 360  
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 tcaaaacatc gtgttgctgt cacattccca gttacatagt tgacaatggc aatgtttatt 540  
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<211> 290

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. AA402224

<400> 157

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ctgcaactgt accaagtcca gggcgccgct ccttcctgcc gagcgcaggc tgctgagtca 180
cgctgcccgc gccagtctgt ccttcctggc cctgaggcca acgtcctagc ctaggccttc 240
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<211> 269

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<213> Homo sapiens

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actcatttac ccggggacag gagaggctct tctcgtgtag tggttgtgca gaccttatgc 180
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<211> 359

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<213> Homo sapiens

<220>

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caagctgagc accttgagtt gcatttgagg aaatgaaaac tatagggtgac gcaaccccat 180
tgtgtcgaat tctttcttta catttttttg gttgctacaa ggaatcagta tttttttttt 240
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<211> 394

<212> DNA

<213> Homo sapiens

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acaccttaac aattatgaca aggcaattat aaataacttt ttttccttag taatatatat 180
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gtaccatcct gggagcccac ctcttgaaa gattagactc caattttcaa aatcctaagg 300
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ttttttgatt ttaaagatac aattagaaat aatgtatatg atgaaaaagc tgtttccac 180  
tccaattcag atctgtgatc tacactggga aaaatgacca ctctcatga agttttgtta 240  
ctgacctctc ttggacttta gctctccatc tctgctgagg ggatatgaag gtatttgcac 300  
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<210> 162  
<211> 207  
<212> DNA  
<213> Homo sapiens

<220>  
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ttttacacta tgaagtacac attggaattt gaatgcagtg gccaggacag cagcttataa 180  
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<211> 348  
<212> DNA  
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<220>  
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gtcattactg aattccatt ggactacaga gtagaaacag agaaggtaca ttaaacattc 180  
acatcttttag taagaaagat taccaaaatg tttcagtatc tgcaagtata ctaacgcag 240  
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<210> 164  
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<212> DNA  
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<220>  
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gcttatcaca tgagcagcta gagctccatc caactgggga cctttggaag agagtgtaga 180  
acacatctta ttcagagttg tctcacttgc ggggtgaagg ttgaagactg ctcttggaac 240  
aatgccttct ccatttcctc atacttttca cctgcctgtg attgggcaa gctgggttcc 300

cattgcccaa gaaagctctc aggaagatgc tcaagtgctt gcagtaagaa gcaatcagc 359

<210> 165

<211> 346

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. AA406371

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agcagagaag tggaaatcaa tacttcatta ccaaattggt agtgaggatg aagagaaatg 180  
gctgggggtga tttttttttt tttttttttt ggcagtcttc tcagagccag ggtgtcagga 240  
ggagttcaat gagttcaatg tcagaagcag gatggtgcaa cgaagaaggg ttcagtgtga 300  
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<210> 166

<211> 143

<212> DNA

<213> Homo sapiens

<220>

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<210> 167

<211> 298

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. AA410311

<400> 167

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tcagcagtaa agaagtttag ttttaactttt tttttaaatg taaaatagtt tggatctgtt 180  
aaaaggaata cagttcgccc aaagcactta ttttcatctg ttgtaaactc attctttcta 240  
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<210> 168

<211> 445

<212> DNA

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 gtcttgatga cacagccctc agcgagagt ccaaccaggc cttcctgggc ttcacatacg 240  
 tggcgccgtc tgtcctggac agcatcacgg agggcttctc cttccagccc aagctgcgct 300  
 caccagggcg cctcaacagt agccccggg tccccgtcag cccctcaag ttctccctt 360  
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<211> 415

<212> DNA

<213> Homo sapiens

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 atgctttccc tgagtattct atgaagtctg gggatcttcg aatgctatta atcttagaca 240  
 gtaaatttta taaagaaatt ctttaaaagt aggacttaat tctcctccgt agtgagtttt 300  
 taagcagagg atatctacta catggattcc tttgcctctt gacaggctca agttccatct 360  
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 cactctctcg aactagagca cgttccagga tcacgcggcc ttccttatat cgctggctgt 240  
 cttcagtggc aaactcatag atccatccca gtttgctatt gcagtttttg cagctcacat 300  
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<211> 73

<212> DNA

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ccacgacccc caggatcctg ggcaagaagc ggcagacaaa cttggcacag gggcctaggg 240  
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ctggctataa ttttttttcc atccagtaca cataagaaaa ggatttagta acacttgggc 360  
aagtaataaa ctgtagaact ttaaaagtag taaaggcata taccaagcat acgtgactcc 420  
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 <212> DNA  
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 <211> 427  
 <212> DNA  
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 aaggcag 427

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 taaaacttgt ttttcttaaa aaatagttgt tgtaacatta aaccataacc taatcagtgt 180  
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atccaaaagag tgggtctagtg tgttggcatt ttcacaaagt acagtcctag aaaatgtcaa 180  
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gggtaacatc ctcacacttg gaacattcat taccacttaa tagcaagata acattaaaaa 360  
aaaatccttc attgccacat ttaatagcat gtttaaaaag gcagagggtg caatgagctg 420  
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<210> 187  
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<212> DNA  
<213> Homo sapiens

<220>  
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caaaggtaga gaaaatgagt aactattgag gccccgct 159

<210> 188  
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<212> DNA  
<213> Homo sapiens

<220>  
<223> Genbank Accession No. AA429539

<400> 188  
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gaaaaattac acctggcagc tgcgtttaag ccttcccca tcgtgtactg cagagttgag 180  
ctggcagggg aggggctgag aggggtgggg ctggaacccc tccccgggag gaggccatc 240

tgggtcttcc atctagaact gtttacatga agataagata ctactgttc atgaatacac 300  
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 taaaac 366

<210> 189  
 <211> 257  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <223> Genbank Accession No. AA429636

<400> 189  
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 atgattcgct attcatcaca ccccgagat tgagatccac tgtatttaca caaagcaaag 180  
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 ccagtgttcc tttttgg 257

<210> 190  
 <211> 428  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <223> Genbank Accession No. AA430074

<400> 190  
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 cctggtaaact actggtggaa caagacagct gagaatgtat gacatctgac catgaacata 180  
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 tctcccatg ttttagacct cccacaccag catttaggat ttcttctct ataactctgc 300  
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 atgcaatc 428

<210> 191  
 <211> 335  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <223> Genbank Accession No. AA430388

<400> 191  
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 cagcagtaca cttagcaatg aggctgtgtt gatgaggaag tgcgcacatc atacttggtg 180  
 tagaagctgg ccaggagata gagcacaata ggagagatgc tgaggaactt gcgggaagag 240  
 gtaaactgga gcccatagtc catttgctcc cagtgtgtca gtagccgagc ctttcttgg 300  
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<210> 192  
 <211> 259  
 <212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. AA431470

<400> 192

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ggagctccat gagggaaacct cagagatgca caatgacagt ttagctaaaa tggcttaaaa 180
aatgtgaatt gattgtcagc tctctccata tctgctgaaa aaaggtttaa aattttttaa 240
aagtttaaaa gtgttttct 259
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<210> 193

<211> 489

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. AA432162

<400> 193

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cttcttacat tccactgaac agaaaacat cccttctact ggcatagaact tctgccaat 180
gaggcatttg ctgcagcaag agcacagaaa gcactctgtg gatgcatgcc agctgaaatt 240
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agcgtgattc ttcacatagc agggccttgca cacgggcttg tcattgacca tcacgtatat 360
ctccccagct agaatgctat cacagtcaaa gcagcagaag tgtttcagggt gccaatctctg 420
gttttctgcc tgggtatact cattgctgaa tatcagctcg tcacagccag cacatcgggg 480
tttctcgct 489
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<210> 194

<211> 367

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. AA432292

<400> 194

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tatctcagtg tctcaattca cactaaaata ttgaatgaga aatacaccac gttggctgat 180
tgcttgacat gtctgattta gggagacttc tacaaccact cctctctttt ttctcccagt 240
aaatactttt gactttgaca cctaccatat tggaaatgac aggtgcccga gggcaagtgc 300
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ttgaatc 367
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<210> 195

<211> 323

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. AA434108





<213> Homo sapiens

<220>

<223> Genbank Accession No. AA443114

<400> 202

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caggtactga ataaattaaa cgctcaggct ctggccccac cccagctttc agagcccaca 180
agcagactgt acaaagtcaa taatttataa cccaaaccct gggcacagtg cctggaagtg 240
tcagggtcac ccactcccct taagttagcc actatacatg ttcattcttc ga 292
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<210> 203

<211> 420

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. AA443923

<400> 203

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gcagggaag actgtagaca cagaaataaa tatccgatta taagctgtga ttagaggcat 180
gatggaaaag agcaaggctt cctgagagaa acagggcgag cacaggaaaa cctctctgag 240
acagtacat gaacttgaaa cttgaagggt aaacaggagt gggcaccccc aaaggggaaa 300
gaaggaatct tccaggcaga gagaaagaga aaagacccag gcacggtata gaccagagga 360
aatttgaggc ccccaccccc ccgccccccc cccccccccc cccctcccc caggaaggcg 420
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<210> 204

<211> 213

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. AA446241

<400> 204

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ggaggcaggg ccagggaag gtgacatata gacatggagt gggcaagga agacacatgc 120
attcacggac ctcagggcc cttggcaggg acaaacagat ggactgacta ggatgagggg 180
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<210> 205

<211> 455

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. AA446651

<400> 205

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aatgtactac tataacaaga cacagttttt atatattact ggaataatgc aaagaaaatg 180
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aattttcctt tgggtccagt aattgtcaaa ggaatgattg cagattcaga aaatgtgctt 240
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tggaaggatt agttgtatta gcaaggcatt tcagggatgg ttttggttct ttagactaag 360
taagatacat ccaatttaga ccccttcaa atccttagac aaatgggaat cacttggtaa 420
cataaagatt attttggtgg gcaggggctg atttc 455

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<210> 206

<211> 451

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. AA446661

<400> 206

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tgatttccta attataatag cacagaaatc ctttagaatt tagtaaactg aattaagact 120
attcagaagt aatgaaaaac caatatgata aaaacaaaaa tcctccagta aagaaggaaac 180
ctgtccattt gagagaaata caattgagaa cttgcaaatg agacaaggga agatggcaat 240
ttggaactgc aatagaaata actatagcag aaacaaccat ttaagaagtt ttagcagcaa 300
taagtattta ttattctgaa tgaaatgtac agttgacttt tatataaaaa tcatcaaaag 360
tgctatattg gattatttta ctattaattt aacccccaac agcatctatt agctataact 420
ttaatggggt tttctttact tctgatacat c 451

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<210> 207

<211> 209

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. AA447522

<400> 207

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tccggaaggc tcagtctgtg gcagtcctgt ggctcaagac aggctgaggc cggctgcaat 120
ggaggccagc agcaggagga tggccagcca cagcccacca cagctctcac ccatgctccc 180
agcatattct ttgaacactg atgagttga 209

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<210> 208

<211> 449

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. AA447537

<400> 208

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gaggctcact gggcagggtg ccaacatccc tttcaagggg atacaccata aagatgacat 180
tgtccaaggt ttggagggca gggatgatctg gtctgaccac ctcaaagccc atgtagctga 240
aggcccgag cagggcacct ctgtcgttcc gatcattctg gaagttcaca aacacagagt 300
ccacatttgt cttctcttcc acgtactcca ggggtgcagt caaactttcc cggttgccct 360
gatccaaggc ctgatatggg atatccagga agagtgcagc gtcacagaga aggccgtgca 420
atgggcagag gtctgggagg taaggcgga 449

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<210> 209  
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 <212> DNA  
 <213> Homo sapiens

<220>  
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<400> 209  
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 aaacgtaact tgaaggtag cacaggagct gctgtgatat aaaaggagag agtcacctgg 120  
 cgccccctgc agtcctccag ttgccagca gcagtgggac gctcagtggc acacagtggg 180  
 tctctgtatg gcctcccacc tgcaagggtc tccccgggca ggcccagctg ccagaagccc 240  
 cggaacacac aggaagacaa cactatagga tggcagggtg ggatctgtgc aatacaaaca 300  
 tgtagctaga aaaccaacc gaggatctgt ctagaatact tc 342

<210> 210  
 <211> 409  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <223> Genbank Accession No. AA447977

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 gcagatatatc aaaattaaag agacagaaga tagacattaa cagataaggc aacttataca 180  
 ttgagaatcc aaatccaata catttaaaaca tttgggaaat gaggggggaca aatggaagcc 240  
 agatcaaatt tgtgtaaaac tattcagtat gtttcccttg cttcatgtct gagaaggctc 300  
 tcccttcaat ggggatgaca aactccaaat gccacacaaa tgttaacaga atactagatt 360  
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<210> 211  
 <211> 376  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <223> Genbank Accession No. AA448625

<400> 211  
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 gaagtgccac tataacattg ttttaaaaaa tcttcaaaaa ttccctatta gaacctatca 180  
 ttgaattaga aaagcaagct ttgccaaatg cctgattatg cctttactgg tcttgctagc 240  
 tggcatgttt caccaacttt tccctagtgt ttccctttggc actgttgagc ccacactaca 300  
 aaacatgaac aagtcccaca aaaccacact atgccctctg cttccccatc atgtggggac 360  
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<210> 212  
 <211> 409  
 <212> DNA  
 <213> Homo sapiens

<220>

<223> Genbank Accession No. AA449749

<400> 212

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tttttttttag gtaaaacagg atgtaaagtt tatatacaag aatataatgt ttatctgaaa 60
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attacaggta agctacaatg ggtttaattt gcaaaagtta agtaagaaat gttttaaaca 180
aggcttaaag tactcaagtc aattataaaa tttatatctt ttgcctttta cttgaagaaa 240
tcatgctata gaaatgggta atgtgcttct aataaatgga agtattgtag ctggaatgtg 300
atacatgtaa cagtttaagt tcccattgaa ggtataaaat gatgaattgt tgtaagactt 360
agacactgag tctcagtcctg gagctgatga agatggtgag ataacagcc 409
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<210> 213

<211> 112

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. AA449791

<400> 213

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ttacctaaat caaactcatg tggatccctc agcaaccaac ccctgtgcag ga 112
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<210> 214

<211> 386

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. AA450114

<400> 214

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aacatgtgat taacaggaag gagatgattg gtgagttttc ttcgtaacca ggttcactgt 180
ggataggaag ggctgcctt ccttcccacc atggagatcc taaaatcaca agctccagcc 240
tccatcaatg atgacagggg taccagttac ataagcagat tcatcagaag ccaaatacac 300
gcagagcatg gctatttctt ctgcagttgc gaatcttccc gtcttttgtc tcttcaggaa 360
atcattccgt gcctcttcag gatttc 386
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<210> 215

<211> 431

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. AA450127

<400> 215

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cagtagctgg ccacctccac caagccgtgg ctcttcagg cgtccgtgtg aggggttcgtg 300
accaggagac aatgcagggtc tcgggcctcg gtgggtgccct ggggtctcggc cggctctccc 360
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431

<210> 216  
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<212> DNA  
<213> Homo sapiens

<220>  
<223> Genbank Accession No. AA450324

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caaaatgccc tcatttctat tttttccctt tcagttaata atttagttta aaagtgcaca 180  
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<210> 217  
<211> 147  
<212> DNA  
<213> Homo sapiens

<220>  
<223> Genbank Accession No. AA451836

<400> 217  
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aaaacctcat gacaaatgaa aattaa 147

<210> 218  
<211> 386  
<212> DNA  
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<220>  
<223> Genbank Accession No. AA453433

<400> 218  
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cctgtgcaga cctgtccacg acagcccagc cgtccaccac ccgcctcatc tctgccaaatt 180  
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gcagaggagg gagacagcag ctgcttcaga ccctgagcag aaaaccagag tgagcacagc 360  
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<210> 219  
<211> 346  
<212> DNA  
<213> Homo sapiens

<220>  
<223> Genbank Accession No. AA453435

<400> 219

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acaagatggt tggcagggga cacttactag tataaaaaata atacaaatat tgtattttcc 180
tcttatctgc cagtaaaaaat ggcaaacagt tttgtctttc tgaagtttct agtcaataac 240
caaagatgag gagccccctaa taaagtgcct tgccctgtat gctccactgt ctatagcttt 300
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<210> 220

<211> 379

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. AA454908

<400> 220

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cctacagaca accaagcact aatcccctta gtaccaagaa aggggagcca ggatttagtc 120
ctggcccagc ccagagctgg gacctggagc acgatctgtt gacttccctg ggtaggacac 180
tgccacctct gggctcaggt cctcatgcct ccaaatggca tctagagttt gagcagcctt 240
cttggtctgag gcaggcctag cctgtggagc gggctagggc caggagcatt tgggtgccct 300
ccatgttgca atgcaaacac cttcaccact ggggcagtgg ggagagatgg ctatattaat 360
aaaataacgt gtgtctttc 379

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<210> 221

<211> 426

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. AA455001

<400> 221

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gggagtcagc acagtccttt ctgcagcttc taaccagga ccatgaactc aggtgcctag 180
agaagccagg cagctaaagg acaaggaaatg ctgggggctg tgggaacagg aatgcagata 240
ccctttgaag gagcattcct gctaaaagaa gctgaaaatg tagacctatg tgaagtgctc 300
tgattttctaa atattgtgaa ggtaagaaa gacataaatt taggtctatg ggctagattt 360
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ctagcc 426

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<210> 222

<211> 256

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. AA455070

<400> 222

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aattcagtgt atgtcattat tactgctaag gaaatcttag cccttgctct ccttaaagga 180
atcttttatt aatttactgt aattattgct gtgtagtcac tacttttggt aatttctcaa 240
atcacttaga tgatgg 256

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<210> 223  
 <211> 465  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <223> Genbank Accession No. AA455381

<400> 223  
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 cactccacag aggaaattaa tccttcgttg acgccaacca tgcccaactc cagctgctct 180  
 gccactctcc agatctgggc tgggtcttga gagtaaaaat aacctgctaa cccaacatca 240  
 gctgcgttac ggattgctat agcctctcct ctgtatcgaa cttgataact ggtgccagag 300  
 cgcgaaagtc tcttcatgag tgcacagcat gtcctgggtg acattgcaca gcagggtagg 360  
 ctcaaagaaa ttttttccaa gttggtgtcg ttttccacct gtcacaacgg tggcaccttt 420  
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<210> 224  
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 <212> DNA  
 <213> Homo sapiens

<220>  
 <223> Genbank Accession No. AA456147

<400> 224  
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 ttgattggtg cacacattta tcctgcatat atattatgta tatgcacaga gagacctcac 180  
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**Figure 1**

[illegible][illegible]

**Figure 1**

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**Figure 1**

[illegible][illegible][illegible][illegible]

**Figure 1**

**Figure 1**

[illegible][illegible][illegible][illegible][illegible][illegible][illegible][illegible]

**Figure 1**

(a) **Flowchart illustrating the selection process for the study.**

(b) **Bar chart showing the distribution of age groups among the participants.**

(c) **Line graph showing the change in heart rate over time during the exercise test.**

(d) **Scatter plot showing the relationship between heart rate and distance covered during the exercise test.**

(e) **Box plot showing the distribution of heart rate values across different age groups.**

(f) **Table showing the mean and standard deviation of heart rate values for each age group.**

[illegible]

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<213> Homo sapiens

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<223> Genbank Accession No. D10522

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 <212> DNA  
 <213> Homo sapiens

<220>  
 <223> Genbank Accession No. D13628

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<212> DNA

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<220>  
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<213> Homo sapiens

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<223> Genbank Accession No. D23662

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 <212> DNA  
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<223> Genbank Accession No. D28589

<400> 296

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<211> 4080

<212> DNA

<213> Homo sapiens

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<223> Genbank Accession No. D29805

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<210> 298

<211> 300

<212> DNA

<213> Homo sapiens

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<223> Genbank Accession No. D31134

<400> 298

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<220>  
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 <211> 419  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <223> Genbank Accession No. D45370

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<210> 301

<211> 3233

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. D50928

<400> 301

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ttggagccag	aaaatgagaa	aatactcgac	attttggggg	aaacttgtaa	atctgagcca	720
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<211> 404

<212> DNA

<213> Homo sapiens

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<223> Genbank Accession No. D51060

<400> 302

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btwcatacac agttaacgag gcaggccaga aagagtttat ctgtaggctc agcctcgctc 300
tcacctcgct ccgaattcct kcagcccggg ggayccacta gttctagagc ggccgcccacc 360
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<211> 283

<212> DNA

<213> Homo sapiens

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<223> Genbank Accession No. D51069

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atgtatgcat acacacagac agacacacac acccgaagtc tctagccagg cgccgtttym 180
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<213> Homo sapiens

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 tactaacatc acatgtacat ttttgTTTT ttaatttaat gtacagaaca ggatatactg 180  
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 <211> 293  
 <212> DNA  
 <213> Homo sapiens

<220>  
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 cgtgaaagga aagtgggttt tccgggatgt gggggctttt ctvagcactg ggtccactga 240  
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 <212> DNA  
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 <212> DNA  
 <213> Homo sapiens

<220>  
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 ctggcttggt ttaccccata atctaatttc agaaaagaaa gctttatttt aacactcatc 180

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<211> 383

<212> DNA

<213> Homo sapiens

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<211> 328

<212> DNA

<213> Homo sapiens

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<223> Genbank Accession No. D80063

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atmgaamgaw acagtataac aacygttkcc attatacaat atctatacat ttcggttagtg 240
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<210> 310

<211> 377

<212> DNA

<213> Homo sapiens

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<223> Genbank Accession No. D80237

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acaaggsgaa acagcgcccc ctctcaactg ggrgggcacc aatggccccct gtagccagag 240
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tactacgagc gaacggtcac cgtgccccatg tacagggtacc gccgccgggc acctgccacc 1320
aagcaactgt ttcatTTTTT attttccatt tgttctttaa cccactttt tgttgttcat 1380
tattttgatt gatttttttt ctttaaaatg tatttttcac aaagg 1425

```

<210> 314

<211> 493

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. D82534

<220>

<221> unsure

<222> (1) .. (493)

<223> n = a or c or g or t

<400> 314

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aagcagtatg cctgtttgca cgatttaact aacaagggca ttggagaaga aatagataat 60
gaacacccct ggactaagcc tgtttcttct ganaatttca cttctcctta tgtgtggatg 120
ttagatgctg aanatttggc tgatattgaa natactgtgg aatggagaca tagaaatgtt 180
gaaagtcttt gtgtaatgga aacagcatcc aactttagtt gttccacctc tggttgtttt 240
agtaaggaca ttgttggact aaggactagt gtctgttggc agcagcattg tgcttctcca 300
ncctttgcgt attgtgggtca ctcattttgt tgtacaggaa cagctttaan aactatgtca 360
tcactcccan aatcttctgc aatgtgtaga aaagcagcaa ggactagatt gcctagggga 420
aaagacttaa ttacttttg gagtgaaaaa tctgatcaag aaactgggac gttgttactt 480
cctgtttcct cca 493

```

<210> 315

<211> 3198

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. D83018

<400> 315

```

ttgggaggag cagtctctcc gctcgtctcc cggagctttc tccattgtct ctgcctttac 60
aacagagggg gacgatggac tgagctgatc cgcaccatgg agtctcggtt cttactgaga 120
acattctggt tgatcttcgg tctcggagca gtttgggggc ttggtgtgga cccttcccta 180
cagattgacg tcttaacaga gttagaactt ggggagtgca cgaccggagt gcgtcaggtc 240
ccggggctgc ataatgggac gaaagccttt ctctttcaag atactcccag aagcataaaa 300
gcatccactg ctacagctga acagtttttt cagaagctga gaaataaaca tgaatttact 360
attttggtga ccctaaaaca gaccactta aattcaggag ttattctctc aattcaccac 420
ttggatcaca ggtacctgga actggaaagt agtggccatc ggaatgaagt cagactgcat 480
taccgctcag gcagtcaccg ccctcacaca gaagtgtttc cttacatttt ggctgatgac 540
aagtggcaca agctctcctt agccatcagt gcttcccatt tgattttaca cattgactgc 600
aataaaattt atgaaagggg agtagaaaag ccctccacag acttgccctc aggcacaaca 660
ttttggctag gacagagaaa taatgcgcac ggatatttta agggatataat gcaagatgtc 720
caattacttg tcatgcccc a gggatttatt gctcagtgcc cagatcttaa tcgcacctgt 780
ccaacttgca atgacttcca tggacttgtg cagaaaatca tggagctaca ggatatttta 840

```

```

gccaaaacat cagccaagct gtctcgagct gaacagcgaa tgaatagatt ggatcagtgc 900
tattgtgaaa ggacttgacac catgaaggga accacctacc gagaatttga gtcctggata 960
gacggctgta agaactgcac atgcctgaat ggaaccatcc agtgtgaaac tctaactctgc 1020
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gaatgcaaat cgatatgcca atttcaagga cgaacctact ttgaaggaga aagaaataca 1140
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gttgagagtt caggctgtcc agctttggat tgtccagagt ctcacagat aaccttgtct 1260
cacagctggt gcaaagtttg taaaggttat gacttttgtt ctgaaaggca taactgcatg 1320
gagaattcca tctgcagaaa tctgaatgac agggctgttt gtagctgtcg agatggtttt 1380
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aatcagcaca actgtgatga aaatgcttta tgcttcaaca ctgttggagg acacaactgt 1620
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gttgattgtt ggcccctgcc ttgccagat gtggagtgtg aattcagcat tctcccagag 2340
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gaatgttctt tcattaaaag accaaaaaga agttaaact taaattgggt gatttgtggg 2640
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gtacagtaca ctctgaaaag aaatctgaaa caagttattg taatgataaa aataatgcac 3060
aggcatggtt acttaatat ttctaacagg aaaagtcatc cctatttctt tgttttactg 3120
cacttaatat tatttggttg aatttgttca gtataagctc gttcttgtgc aaaattaaat 3180
aatattttct cttacctt
3198

```

```

<210> 316
<211> 217
<212> DNA
<213> Homo sapiens

```

```

<220>
<223> Genbank Accession No. F01920

```

```

<220>
<221> unsure
<222> (1)..(217)
<223> n = a or c or g or t

```

```

<400> 316
aacagggata ggcaaacagc tctttattcc aactccatta gtgatatgaa agaaagacaa 60

```



tccaagtcag taatggaaat atgcaagang ttcaatttag gtgaggtgaa tttttgcatg 120  
 tgctttaacg gttgaggttt agtgtatatt gtacttttta cccttaaggc caagtaattg 180  
 gcaactgtga accattaatg taaaatattg ataataa 217

<210> 317

<211> 205

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. F02204

<400> 317

caggagaagc ctgtttatta ggcaggagaa gcagcagggc agccaggctc ccctcccagc 60  
 caccagctgg ccaaattgtc tcccttaact caggggtacc caaggctcca tggccatgtg 120  
 accagaggcg tgtaccctca agaggcgccc cctcagccct gggcagccca gccactgggt 180  
 ctgcgcccttc aggggcctgc gcccc 205

<210> 318

<211> 298

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. F02245

<400> 318

gggggtggca gtgcacttta ttaacaaaca aaacagtacc atacaggcaa aatcttactt 60  
 cagtggcaaa gcacacacat aggtatactc caacgtgtag cactggggca aacttcagac 120  
 atggaacatt aggcaccaag ttcacaatca cactaaacat agttcacaat ccttcaatcc 180  
 atactcttca gtggaggatg aggccttatt taacagttaa ctgggacaga cagatgaagt 240  
 tttaaaatct aattcttggc ctaactgtgg agtggggctg actcagcctt cagaactg 298

<210> 319

<211> 212

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. F02333

<400> 319

gcattaacag taaccccaag aaaggcatca gggttctgga gtggttgttt gagtgacaca 60  
 gcacaaggcc ttgatttcat catgcttttg ctgtggatgt agtgtagctt gctgaacagg 120  
 tatggaagct gtctttgctg ttaagtactt ctcccgtttg tttatcaacc tgcagctaac 180  
 aggatgtctg cttttttaca ggtttatttc ac 212

<210> 320

<211> 221

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. F02470

<400> 320

gtttcacatg agtgaaaaaa ttaacagctg ccctcatttc tgaaaaacaaa aaactataaa 60  
 caatcactgt tgctcccaat gggaccgttg gacataagcc ctgaggcttt ggggtcaacg 120  
 ggctagactc tagaagccca ggaccccgcc aaggctcatgt ctgcatactt ggggcagggc 180  
 gagctgttga accatcgcat ttctctgctg cttctttaca t 221

<210> 321  
 <211> 312  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <223> Genbank Accession No. F02992

<220>  
 <221> unsure  
 <222> (1) .. (312)  
 <223> n = a or c or g or t

<400> 321  
 aagaatttta gtttttttct tccccagac tttttttttt tttttttttt tttttttaag 60  
 gaaaaaaacc cccgccaaat ctgaaccgctg ttgtagctcg gtccccgcct cctcagcggg 120  
 ctgtcgcgtg caacaaacct cccccatcat cttagaaaat aattatagag cgcggcgccc 180  
 cgccctcgnt cctgccagtg ggcgnttttg tcctattttt tggattattt cattacgaag 240  
 cacgtgaatg aatctagccc ccacaccttc aagaaagaaa ctgcgcggact ggggttgaaa 300  
 agcccagggtg gg 312

<210> 322  
 <211> 202  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <223> Genbank Accession No. F03254

<220>  
 <221> unsure  
 <222> (1) .. (202)  
 <223> n = a or c or g or t

<400> 322  
 attcatggtc gantattatt tattgtcaga aaggtagcgc attcacacca atatcagaca 60  
 aaatagattt taactaaaaa attatttcgn gacaaaaata acaatatatg tnaataaaaag 120  
 gctcaattaa aaatgtataa caattataaa cacatacaca tcaaacaaca gtncccaaaa 180  
 atacataaag caaacattga ca 202

<210> 323  
 <211> 305  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <223> Genbank Accession No. F03969

<220>  
 <221> unsure  
 <222> (1) .. (305)

<223> n = a or c or g or t

<400> 323

```
gaactttggg aaaattatTT atttctcccc acgggggttca gacaagtaat ttcacatttc 60
attgtaagtc aagggttaaga aaacattttt tgtacatcca tcactaatag agatcacagt 120
atgtcaatga aatattttaa tacactgtac agagattgct ttttaattgga tttctataag 180
tagtattaat aggaaaaagc atataatata atctactctg tatctaagag ctttaattta 240
ttcaaattatt ggaagaaatt catctnctga attttnctta tttaaaaagc attatgagaa 300
ctgat 305
```

<210> 324

<211> 335

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. F04112

<400> 324

```
aatagagatg ggggatctca tcgtcaccca ggttggatg cagtataacc atcacagctc 60
gctgcagcct ccacctcttg ggatcaaccc ctacctcatt ctctgactg ggactacagg 120
cactcaccac cacactgggc taattaaaaa aaaaaattct tttttgtagg gaagtgggtc 180
tgctatgtca cccagggtga tctagaactc ctgacctcaa gtcacccgtc cgcattatcc 240
tcccaaagtg ctgagattac agacgtgagc cactgcactt ggcctattta gggcttctaa 300
ttcactttcc ttttcttct tgtctaattc ttgtg 335
```

<210> 325

<211> 178

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. F04492

<400> 325

```
gtagagacgg agccatccat gtttcccagg ctggtctcga actcctgggc tcaagcaatc 60
ctgccgcatt ggctctctca agtgctgcga ttacagggtg gagccattgt gctggccaa 120
aatgtgtatt tttaatatgc tgctgagttg actcttgat gatcaggagg agcatttg 178
```

<210> 326

<211> 211

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. F04816

<220>

<221> unsure

<222> (1) .. (211)

<223> n = a or c or g or t

<400> 326

```
gatgtaacat ttgtnatTTT attggaaaaa gctgggtatta acatatttat agttttattc 60
aacaattggg taattttgtga gacaccaaag aaaaaaagaa tgcacctatg agttacagag 120
tccaaactga tcagggtctga caacttgacc accatgtntc ccacaccacc acccccacca 180
```

ccaccaccac caacagcttc gtcctcagag a

211

<210> 327

<211> 276

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. F09281

<220>

<221> unsure

<222> (1)..(276)

<223> n = a or c or g or t

<400> 327

```
actgttttaa  tataattgaa  gtttttnata  tgatgaagtg  ctccataatt  taaatgtaa  60
aaaccaatag  gaaatatatg  aaataaaaata  aaattatacg  taaaagtgac  aatgcctcta  120
ttagatttaa  cagtatctta  caatagaata  agttgaaacc  tacaaaatgg  aagaaagttt  180
aaaattaggc  agatattatc  ancctggtga  agaataaata  catatgtcaa  taagcattta  240
atgtatttgg  tcttagattt  tacatgaaat  aataaa  276
```

<210> 328

<211> 293

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. F09315

<400> 328

```
acagaaattg  acctttattt  gttgtactaa  agcctgttta  acttttgata  caaagtaaca  60
ttttagtaca  gaaaatccca  gtctgtcagc  tcagtacctg  tctgtgcaca  ctgtaccatc  120
tcagtcccac  tctgcctgta  acttagaaaa  cagccccctac  ccccagaggt  ctgcgagtta  180
ataccttgag  aatagtctac  agtttttcat  agtttgtctg  agctagaaaa  cttgtacctg  240
taaaacaaag  gacagcattg  aggactgaaa  cttgtctctt  ttttgaacaa  ctg  293
```

<210> 329

<211> 214

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. F09684

<400> 329

```
gctttacata  aacttataag  gattttttat  ttaaaggatt  taaaaatata  acacagtcaa  60
tataaacatg  tactgggaat  tataaaccat  tctttcttct  aagcactgga  tgagatacta  120
aaaacataca  gtatcttacc  aatagccatt  aaaataggct  aaaatgaaaa  agaaaccggt  180
gtaacaaggt  tactaatccc  ccaactttca  atgc  214
```

<210> 330

<211> 332

<212> DNA

<213> Homo sapiens

<220>  
<223> Genbank Accession No. F09748

<400> 330  
gaatgaaaga atccagcaga tattttattaa gcaagatgaa agtgaaatta caaacacagg 60  
tcaacttttta aactcagcac tctgttggag tggagggtgca cggtccttca tcataggcag 120  
cctatgcgag atgcatctta ggaagggagc ttctgctgct cagaaatcaa agtcccatcg 180  
gaggtgtcct actggaggca tcagacaaca agctaaatga cgtagggct acacaacaca 240  
aaggggaaag ttgacaacaa ttcaggggct ttgagtagtc aagacaatta gcttagtact 300  
tcaggtcaat aaatgctaca atttatgggc aa 332

<210> 331  
<211> 247  
<212> DNA  
<213> Homo sapiens

<220>  
<223> Genbank Accession No. F10078

<220>  
<221> unsure  
<222> (1) .. (247)  
<223> n = a or c or g or t

<400> 331  
catgccttga ggaaagctat ttattttccaa gatatagact gtacttttaa gacaggactt 60  
ttcagaagca ggaaatttta gttgttgcca gagagggtgtg tcaaggacac agtgaaagga 120  
gccatgcgga catgggggtgg aaggctttnt ccaacactgt tacaacactt ttgtaaatga 180  
gcaaaacatc tttaaaaatc cttataaatt ctttataata tgttacacat ttagagacaa 240  
tatttac 247

<210> 332  
<211> 243  
<212> DNA  
<213> Homo sapiens

<220>  
<223> Genbank Accession No. F13763

<400> 332  
tttttttttt actttaattt ttcttttatt ttcactgaca gaaaaatttt ctggagagta 60  
caatcaagat agtgattat tagaaataac attaatagaa gcttggtcag aaatgataat 120  
agtcataata agcatctctc tcaccaaggc attccacaca gagagatcac agcacaataa 180  
ataaaggatt tctcatttgc cacacaacaa ataaaacaat tgcagtaaca aaaatatgac 240  
ttt 243

<210> 333  
<211> 415  
<212> DNA  
<213> Homo sapiens

<220>  
<223> Genbank Accession No. H01824

<220>  
<221> unsure

<222> (1)..(415)

<223> n = a or c or g or t

<400> 333

```
attcacaana annnntttta ttattcttaa cagtactcac tttaaaggaa taagaggata 60
gcatacatTT tttacagaca atatataaat gttgtacata attaacaata acttagttca 120
ctaataccaaa ataaaaacaag ccaaataaaa cataaaaaa gaaaataactg ccgnttcttt 180
ttcttatgCG ggacactagn tacaaaataa gttacttctg ggccgtgggt gctccctgca 240
ggcgactgcc cgcccatatt gcacttgggt cactaacatc aggcacaatc ctccctccggg 300
ggccgggggcc ccttcancag ggcccaccac accccgccgt tcaccggcat tacaggaatc 360
ttaggcttgG gggacaggtt tattattaca gctgttacct tggggggngg ggttc 415
```

<210> 334

<211> 309

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. H02308

<220>

<221> unsure

<222> (1)..(309)

<223> n = a or c or g or t

<400> 334

```
tgatagcaca ttttagtttt taataaaatc tgctttttac ttatatTTaa ataaattgcc 60
cagttactga atcagaagca tttcttaca agcaacaaa ataagcatcc cttctatggt 120
aataacatgt taatagtatg ttggcaagtt gatttagaac aacttgccaa caatacaaac 180
agaaaaaagg agtgggtcaa agaaatctag tttggcttta ttttcaatag atcactactgt 240
ctgttgaaaa aggaataaat aattatggag cctatctaata aatatactca atagnTTgaa 300
attattgag 309
```

<210> 335

<211> 277

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. H03387

<220>

<221> unsure

<222> (1)..(277)

<223> n = a or c or g or t

<400> 335

```
acgcaagtta gannanttat tatgataact ctgcaatctt ttcagccact ctttaagggt 60
cctgggcac cttctgggc acagtgtgac atttacctga acagagagga gantggcact 120
agaagatgag ggagatttgG tgctaaaaa ttactacaaa caggcagggt gcagtggctc 180
acgcatgtaa tcccagcact ttgggaggcc gaggtgggtg catcacgagg tcaggagttt 240
gagatctgcc tggccaacat ggtgaaaccc catctct 277
```

<210> 336

<211> 372

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. H05084

<220>

<221> unsure

<222> (1) .. (372)

<223> n = a or c or g or t

<400> 336

```

tttttttttt ttcacagtga gcattaaatt attattccat acagccctgg ccttggccct 60
tcttgaggga gtgggggttn tggggntngc ccagcaggga tcctgccaga tgatgtccac 120
atgagaaggc aggtgtccaa cagcttcagc ttcacccagt gccccccaga caaataatga 180
caagtccagg gtcttctgat gtgtcaggcc agcactcccc ttgctgatgg gaaaaccggg 240
gctcgccag cccactgca tccctcaca tgatgatacg aggctctngc actgactcgc 300
caatagactt gtggggcagc angctggctc cgttgaggta ggagctcatc attaactatt 360
gacgtcctnc ac 372

```

<210> 337

<211> 353

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. H05625

<220>

<221> unsure

<222> (1) .. (353)

<223> n = a or c or g or t

<400> 337

```

tttttttttt tttttttttt gcttcacaaa tgtcaatttt attgacacta gtgcacaact 60
aaatacaata attgcaaagg aagtggaacg tgttcaaaca gaaatgggtga caatgagtta 120
gaactgcagt tntttcaagg tactacacta ttatttaaaa aaaaaatcac aaanagaaaa 180
atgttatcac tacaagtagg gatttaggaa gngagnaaat tctgggcagt ctgtctagna 240
gggttaaaac atttcatggc atttgtgagt tgctgttgga gagttgtttt ttatttgtcc 300
accgtaatct gggcaacatc cgggggctta ccttcagctc tcggcactgt gcg 353

```

<210> 338

<211> 501

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. H05704

<220>

<221> unsure

<222> (1) .. (501)

<223> n = a or c or g or t

<400> 338

```

tttttttttc cttctgtagt cgtctttatt tagagcagaa ttcagactca gctggtatcc 60
cccagggcaa ccccaggatg ggganagggc tggtctgtcc ccaccactt ctccaggatc 120

```

```
ctccagccc ccaggctgnc ttttccctcc aactgtcagc tgcttagctg ctcactctggg 180
gattggagct ggagcatctg tcaaggttgt ctccttgaca aacagcttcc tctttggaaa 240
tggttctact caggctcctgc aggtcatcga gcaggacaga gagggacccg gggaagggaag 300
acagcagatg agcaccagac aagggaaggt gctcgtgggt acagagggaa acagggttgg 360
gcacagggaa atgaggggaat ggggagagag ggaggctctt tgggtccaag ctggggcatc 420
ncttaaaaga ggtttaaggg tntcgaagga ccncagagaa caacattctt cntgcgagat 480
ttttaagagg gaggtttctn a 501
```

<210> 339

<211> 465

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. H08548

<220>

<221> unsure

<222> (1) .. (465)

<223> n = a or c or g or t

<400> 339

```
ttttttttca caaatattgg cttgggttttt atttctatgc ttataaaaaa aatatgaagc 60
ttctttgtgt ggactgaagg ggtggttagcc tgtggatggt ggtcttcggt gcctgtaccc 120
cagtggctgt ttacattcca ggnccctgct aaataaagna ggctccactg ccagctgtct 180
gtacactttt tcttggggga agagttcttg tcttcagttt actgcagtag ggttcctggc 240
tctgttacat gctcatgtgt tccggaagaa catatgaaat atcatccac ggatgacgat 300
acagccccctg cttcagcctn ttctgatcaa gatagtntcc aatgaacccc atactccttc 360
ccagcacaaa gatgccattg agggctccaa tgtcaatatt attgcatcag cttcctcccg 420
agtaaagggg cccacagttt ttttaaggatg ttttacaatt gcgat 465
```

<210> 340

<211> 313

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. H15143

<400> 340

```
tttttttttt tgtgggtcac agttgagggg ttattgccag tgttaggaag aatggggggg 60
ctgggtggcc aggggtcttg ggaggaattc caaatgagca ctgcagggcc tgtgagtggg 120
gaggagagct gctgcccccc tgccacccag gagggcccag ggctgatgcc accatattct 180
gactgctagt ggtgccttaa aagggtggcct cccacagga ggggagcctt gggggcccc 240
aggagtcagc cctcaccaac aagccctctc tcaagggggc caggggcttt tattcctcat 300
gggacaggct ggg 313
```

<210> 341

<211> 295

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. H16171

<220>





<220>  
<223> Genbank Accession No. H17333

<220>  
<221> unsure  
<222> (1) .. (354)  
<223> n = a or c or g or t

<400> 344  
 ttttttttta attgttaata ttgctaattt gtacaatggg taatgatcct ataaaaatagt 60  
 tgtatgaaag caccaaccac cttagaaagt ctgaccagca ttcatatcta ctttccagac 120  
 cctcatccct cctccccact cacctgactc tgctcggctc attcatgggc tttcctgtgc 180  
 tctgccattg ctcagggtgag tgagcagttc gcccggcaca ttgaccaggc agatccaggg 240  
 canccgatcg gtggagccca ggaaatggag aggctggcac agctgcagca atgcctgnaa 300  
 gctgtcctga ttttctccgg cttngagata gccaccactt ttgagcatta ttac 354

<210> 345  
<211> 486  
<212> DNA  
<213> Homo sapiens

<220>  
<223> Genbank Accession No. H17550

<220>  
<221> unsure  
<222> (1) .. (486)  
<223> n = a or c or g or t

<400> 345  
 ttttttttat ttttaaaaat ctattttatt atcaaaacag tattggcaca gtaattctca 60  
 tattatcatc aaataataaa attgctactt tctgtactca attccttaga atcctagaaa 120  
 ttgcaaattgc attcaattta acaatattgt aaataacaat acaaaagaaa gaactctgca 180  
 tatttatgga aacattgttg atggtacagt tctactgaaa ctcatacaca tttcactatt 240  
 taattttacat atggncttgt tgaaaaaaac cagtatgttt tactttttca atttccttat 300  
 ggctaaaata catgtaattc taaagggata tctcttgggt gttataaaaa ccaggaggagg 360  
 tccaccacca ggtcaagggt ggngtcaagg ntacttcaaa gggtccctgg aatggatccg 420  
 gaaaacaaat ttttaaccna aaatgtggta ccgntttggg ggggcccttc ncggggcccc 480  
 caacgg 486

<210> 346  
<211> 371  
<212> DNA  
<213> Homo sapiens

<220>  
<223> Genbank Accession No. H18947

<220>  
<221> unsure  
<222> (1) .. (371)  
<223> n = a or c or g or t

<400> 346  
 tttttttttt ctttttttag gnttcattgt tgttttattt aaagtctggg tgggtacaga 60  
 aaacacacac aacttaaca ggttaaaata tccaaataaa atttactgca actttttag 120

```

aattttatatt gtgctacaag acacgttgca taagaaacta tttaaagccc ctgaggaaaa 180
aatatccatg gtttaagggtg caactgggtt tgtttcttct ttggggaaaaa ggtgatagat 240
ggtctctggg agaaattatg ggggtggagt gagaaagcaca atcgaagggtt atatgggtggg 300
atgattggcg aattgtgtgt cctgggttct tggcagcatt aaaatagcct aatgttttgt 360
tctttttttc a 371

```

```

<210> 347
<211> 187
<212> DNA
<213> Homo sapiens

```

```

<220>
<223> Genbank Accession No. H21814

```

```

<220>
<221> unsure
<222> (1) .. (187)
<223> n = a or c or g or t

```

```

<400> 347
ttattgagggg ttattgagt gcagggagaa gggctcttgat gccttggggg gggaggagag 60
acctctcccc gggatcctgc agtctctagt ctcccggtgt ggggggtgag ggatgagaac 120
ccatgaacat tctgtagggg ccactntctt ctccacggtg ctcccttcat gtcgtgacct 180
gggcagc 187

```

```

<210> 348
<211> 432
<212> DNA
<213> Homo sapiens

```

```

<220>
<223> Genbank Accession No. H22453

```

```

<220>
<221> unsure
<222> (1) .. (432)
<223> n = a or c or g or t

```

```

<400> 348
ttctcttggt gctggagttg taaaaatcaa tgtcccattg ctgagatcga agctccctgt 60
gtctctgggg ggctcagcag ggacgatggc ctccagagtg gacctctgag aaattgcaga 120
ggcatcagag ctgtgggctc agcatatgag gtcccaggg gccatagacc cctcctcct 180
gggaagagtg ctctgcaga gcttatttgc aatctcctgg gagtccaga ctacacaaag 240
gattcagatc ctcttctttt tgctcctac atagagcaca ttatagacct gaaacaggaa 300
tcagaattcc agactccctt agtgaggaga caaagtgtta ggtcttagct ttttcccttc 360
taaattaagg gtccctcctg ggattcaggt tgcctgatag cttatnctg aaantggtn 420
gagataggga aa 432

```

```

<210> 349
<211> 233
<212> DNA
<213> Homo sapiens

```

```

<220>
<223> Genbank Accession No. H26288

```



<222> (1)..(327)

<223> n = a or c or g or t

<400> 352

```
ctgtatanttt tnncttnttt tttctcttgt gatttggcac ttaaggctta agcgcnaaaa 60
aaaaaggcat ctactgacaa aatatgggac ttgtctgtna tgcattgtaa gtgggctata 120
aaatccaggg aggggggtttc aagccagaag aagctactga caaattgact tgtccttatg 180
ttaggtgggg ttatgagggg gagagggagg gcacattctg aggtgctggg ggaaaggggt 240
tgagcttaac cttgttaatg tagggcctgt ggggaatggg atgggtaggg agaagagggt 300
atgggatgtg ggtgcagggt aggggct 327
```

<210> 353

<211> 448

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. H44631

<220>

<221> unsure

<222> (1)..(448)

<223> n = a or c or g or t

<400> 353

```
actcagcatn cnttttattt tncatctga catttctaac aaaacgccag ggagacggag 60
ttaaaaagaa tccacccac gaaaggtaaa caaaggagac cctcagaaac tccctggcaa 120
ggatgttccc ctcccagat tgggcccagt ttcaccagca actgggtctc agactcagcc 180
ttatgccttt cactgacac cccccaccc tccacantct cgtgattcag accagggaac 240
ttctcgggct gattgtgtcc gtgtgtctga gggaggggca cgctggaacc tgggaaccta 300
ctggggcacct ctaatgcaga tgagaaaaac ttgagaatgt gaaaggagat cagtcgccgn 360
tccacccga aggtgcagag acgcgggaca ttaaccagca gnacgcgggg gtgaaggaac 420
tcagggaat ttctcccant gccagggg 448
```

<210> 354

<211> 346

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. H48793

<220>

<221> unsure

<222> (1)..(346)

<223> n = a or c or g or t

<400> 354

```
gatttaggag attccaagt atacctttaa ttcactactc tatgtcctta ttaataaata 60
catattttaa aaaacctata caatatagt tatttacagc atggaagagc agagactctg 120
aagccagact gcctgagttc aaatcctgac acttctactc aaatatgtgt gagtgaattt 180
gggcaattta cttactcttt ctgtgtttct atttactcgt ctacaacaat aatttctacc 240
tcatcaaatt aaattaaaaa aaaaacggct taaatagggt aacatttgta aataggctta 300
ggaaaacact acatttaaaa aaataancat tcctaaccac ccttcc 346
```

<210> 355

<211> 458  
<212> DNA  
<213> Homo sapiens

<220>  
<223> Genbank Accession No. H49440

<220>  
<221> unsure  
<222> (1)..(458)  
<223> n = a or c or g or t

<400> 355  
ggagttttcac catgtttggcc aggctggtct caaactcctg acctcaggtg atccacctgc 60  
ctcagcctcc caaagtgctg ggattacagg catgagtcac tgctcccagc cattagaaag 120  
attgttaatc ctatgaactc cttttttag gagagaaagg gccaatctgt aggggtagcc 180  
ctgtccaggt aaagttgttt tcagcctcat gtctactgtt aggtgaggga gtcacagcca 240  
gacagagagt attgctggag ggtgagagaa ttgtggagac caactaccac atagcaagag 300  
cccagctctt gggagcattg agatgtaagc tcagggttac acagttccaa atcttgggga 360  
aggggctttt tcagacagac tgtttgcttt ctgctgagat taaggaattg catcantctg 420  
ccagagtatt gactttttaa cagattatta aataaagg 458

<210> 356  
<211> 446  
<212> DNA  
<213> Homo sapiens

<220>  
<223> Genbank Accession No. H52835

<220>  
<221> unsure  
<222> (1)..(446)  
<223> n = a or c or g or t

<400> 356  
cggataccct gggggcctct gctcctctct ttgtggagac gtcgtttcac cggcggcgcg 60  
tgaccccggc agctgtccag agaccagag atgtccaatc acaggcgcac ggtgcacagg 120  
cgcgcagggc tgcttgaac gggcccaggc aggcagtgac cgggacctct ccggagggag 180  
aggaacggtg cctcccggg aggagctggc caggcaggcg ctgcccaggg cggccttccc 240  
tgctggacta cggcattgcn actgagttat ataaagacac tatttgggga aggacagcgg 300  
gtgaggactn ggcgcggcgg cacacgcttt gctgttgtn ttcagctctt ctggggggcca 360  
aggcagggag ttccagggtt tacagtgagc ctgatngcca attgctttcc aaaagagaga 420  
aacagagaga aagggattna ggcttc 446

<210> 357  
<211> 386  
<212> DNA  
<213> Homo sapiens

<220>  
<223> Genbank Accession No. H54764

<220>  
<221> unsure  
<222> (1)..(386)

<223> n = a or c or g or t

<400> 357

```
gatggagttt cgctcttctt gcccaggctg gagtgcaatg gtgcaatctc ggctcactgc 60
aacctccacc tcctgagttt gagattctcc tgcctcagcc tcccactggg attacaggcg 120
cctgccacca cgcccagcta attattgcat ttttagtaga gatgggggtt caccatgaaa 180
atTTTTatTT ttattaaaag agtgcattgag ttagtcatga aggcagagcc agggcggcct 240
gcataccaaa tgtgaaggaa cagtaccaat tgacaaaagga aggcacaaaa ctaggacaaa 300
ggaaaaggga cttcaattaa ataaggtaat ttggaactaa ctggaaaatt gaggaggggg 360
aatngcaaa taaaatnggg gaggca 386
```

<210> 358

<211> 384

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. H56673

<220>

<221> unsure

<222> (1) .. (384)

<223> n = a or c or g or t

<400> 358

```
gttaccaaga cacaatttta agatcaaaca agtgtcaagg taggccatgg cttgttggca 60
gtagtagggg ccctatggct atttccagggt atgggtggcc ccttttcctt gggtatctgg 120
ggaatctgcc acagcagaca gcaaaaggta aaaagcatcc ctttaataac tacacccac 180
tccagcaatt gaggtttatt caggggtggg tcaaagtagt acaagacaaa aatagcttag 240
tgaaatggnt tagaatccag actgaggtgc cagactgcct gcattctgag tctcagggtcc 300
caccatgtat ggagggcgtg tggaccttgg ggggtgaggt actaggcctc cccgggggtt 360
caaattcttct tcacctgtaa aatg 384
```

<210> 359

<211> 440

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. H58873

<220>

<221> unsure

<222> (1) .. (440)

<223> n = a or c or g or t

<400> 359

```
actataactt agtgtctgta tttaatattg acaacacaaa atatatan tttntttgca 60
tctatacaca acagggcagg agtctccatg tnttcttgag cagtgagttt gcaggctccc 120
acaggccctc ttctcatggg aatagtgtgg ccctagtgca aaggagacta gaacccggca 180
gcccagactg gcccttcccc tctctccct gcactccagt gcttcccaac tgggtctcagg 240
taaagaaagn ttantttgag tggttgggta ggaagagatg ggaaggggca aatcctaagt 300
ggagcctgac ccctagagtg gggagttcca gggccagcag aacgggtggg ccatagccct 360
nctggggnt agaagctttg tagttcatag ttcgattagt ntgtccntag ggcattnagg 420
nccagcccta cagattagct 440
```

<210> 360  
 <211> 284  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <223> Genbank Accession No. H60595

<400> 360  
 aagacagagt ggactgttac aaatgatttt gcaaaataca aaaatagata tacttccact 60  
 gaatgcttta atcatttttc cgggcactct catcttttgg ttcttcctca tctgagtaca 120  
 cagtgggctc ctccccctcc ttcagcagtt tgccacgtg atgatacttg aaagtgaact 180  
 gagactccca gtcactcaga gtctcctgct gggcgagtg aggtcagaaa ggcatcgtg 240  
 ctcatccttc agtgcttctt tatccgggga aaatgtgggc aagg 284

<210> 361  
 <211> 317  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <223> Genbank Accession No. H61295

<400> 361  
 gaaccctcta agggacctca aaggtgattg tgccaggctc tgcgcctgcc ccacaccctc 60  
 ccttaccctc ctccagacca ttcaggacac agggaaatca gggttacaaa tcttcttgat 120  
 ccacttctct caggatcccc tctcttctca cccttctca ccacttccct cagtcccaac 180  
 tccttttccc tatttcttc tctcctgtc tttaaagcct gcctcttcca ggaagacccc 240  
 cctattgctg ctggggctcc ccatttgctt actttgcatt tgtgcccact ctccaccctc 300  
 gctccctga gctgaaa 317

<210> 362  
 <211> 370  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <223> Genbank Accession No. H64493

<220>  
 <221> unsure  
 <222> (1)..(370)  
 <223> n = a or c or g or t

<400> 362  
 ggggtgcttta tttccatgct gggcgcccgg gaagtatgta cacggggtac gtgccaaagca 60  
 tcctcgcgcg accccgagag cccggggagc gggngcttgc cggccgtcgc actcatttac 120  
 ccggagacag ggagaggctc ttctgcgtga agcggttggt cagagcctca tgcatacagg 180  
 agcatgagaa gatgttcccc tgctgccacc tgctcttgtc cacggtgagc ttgctgtaga 240  
 ggaagaagga gccgtcggag tncagcatgg ggaggcntgg gtnttgtagt tnttctccgg 300  
 ctgcccgtg ctttcccant ccacgggcga tgtcgctggg ggtagaagcc tttgaacagg 360  
 gaagtcaggc 370

<210> 363  
 <211> 460  
 <212> DNA



<213> Homo sapiens

<220>

<223> Genbank Accession No. H66642

<220>

<221> unsure

<222> (1)..(460)

<223> n = a or c or g or t

<400> 363

```
ttaaagacag agtttcgctc ttgttgccca ggctgtagtg caatggcgcg atattggctc 60
actgcaaccc ctgcctccca ggttcaagtg attctcctgc ctcaccaagt agctgtgatt 120
acaggtagcc gccaccatgg ccagctaatt ttttctattt ttagtagagc cgggggttca 180
ccatgttggc caggctgggc tcgaactcct gatctcaggt gatccacctg tcttggcctc 240
ccgtgctggg attataggca tgagccacca cgtccggcca aattttactt cttaaaagtg 300
cttttctctc agtgatatca aggtcttctg tctactatta taaccataag cttctttagg 360
cattaaggag ggaaaatgtt taataaaatg taattaaact gggatggaat ggtcagtgtg 420
tttaaagtga aatatactta aatgtaatta ccgggngngt 460
```

<210> 364

<211> 291

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. H68097

<220>

<221> unsure

<222> (1)..(291)

<223> n = a or c or g or t

<400> 364

```
tgaagtttat ttncctcggc agtatgtttt agtttcttgt ttttnatttt gttgtgtgtg 60
tatgtgttgt agattttatg atttgagggt accatgaggc ttgcaaataa cataacatgt 120
tatttttaaag tgacaacttg aactgattg caaaaacaaa cagggcgaag agaactaata 180
aaaactgtac actttaactt cattcctcct gttttttnaag gtttttatgg gtttctattt 240
atatctcctt gtactatttt gaaaagggna ttgcagggtta tcatttggtc a 291
```

<210> 365

<211> 317

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. H77597

<220>

<221> unsure

<222> (1)..(317)

<223> n = a or c or g or t

<400> 365

```
tcaagtctaa gtgtttaatt attattcaca tatttcacag aaaaaaagga atgtagcaaa 60
tgagtcggag ttgtagaaaa aaaaaatcct ggnttttacg tgtcattctg ttttcatctg 120
```

```

acagcagggc tgtcccgaca tcaggcacag cagctgcact tctctgacgc ccctttgcag 180
atgcagccct gggcacactt gggcacagcc caggggnaaa caggagcagc agcctggggg 240
aaaaagggag agagaaggtc acaggcagac ttnaccaggg ganctccctt tcccaacagc 300
aggcctgggc tcaagct                                     317

```

```

<210> 366
<211> 340
<212> DNA
<213> Homo sapiens

```

```

<220>
<223> Genbank Accession No. H81070

```

```

<220>
<221> unsure
<222> (1) .. (340)
<223> n = a or c or g or t

```

```

<400> 366
caggtctaaa gtgtttaatt atcactcaca tatttcacag gaaaaggaat gtagcaaattg 60
ggcgaagggtg gtataaaaaa aaaatccagg tttgtacatg tctctctgtt tacatctggg 120
agaaagggttg tcctgggcat cagtcgcagc agctgcactt ctctgacgcc cctttgcaaa 180
cacagccctg gggcacactt gctacagccc acgggnagnc agggagcagg cagctctttc 240
ttgcaggagg gtgcatttgc ctctttgcac ttgcgggaac cagcgcggtg cagggaggac 300
accagcggcg cagggagcag ttgggggggtc cattngcaag                                     340

```

```

<210> 367
<211> 330
<212> DNA
<213> Homo sapiens

```

```

<220>
<223> Genbank Accession No. H81379

```

```

<220>
<221> unsure
<222> (1) .. (330)
<223> n = a or c or g or t

```

```

<400> 367
ttaanntttt ttaaaaccaa aagaacaact ttaataagct tttacggcac tgcaattaca 60
ggaacatcga ccataacat gcaacaaaaa tgattttgcc ttttggacat atttaacaga 120
taaacttgac attacaagta acagcaacac attcccattc tactgaagaa aacaaatgcg 180
atttaacttt caggttagaa aacgtatctt cttactgcaa tctcaagtng gcatttngaa 240
agtttagttt tcccttttct aacctctaaa agatgatatg atttttaatg caatcatata 300
caactgtttt cacattgggg aatantcacg                                     330

```

```

<210> 368
<211> 419
<212> DNA
<213> Homo sapiens

```

```

<220>
<223> Genbank Accession No. H81413

```

```

<220>

```

<221> unsure  
 <222> (1)..(419)  
 <223> n = a or c or g or t

<400> 368  
 ngagccagaa aaggattttt tttaattcaa gtaactgaaa taggaaacca gaggggggagc 60  
 cccaggctgg gataaatcat ggctaccctt ccccaacaga acagggggag gaggtggccc 120  
 ctacacccat tatggtcgat tcgggcccc ttgctcactc tgctgcagca tcctagaggc 180  
 agggccccac cttccctggg actggggtag tcggtcaccc agcctgcatt gccccagccc 240  
 ctnttcccca caaagagtat cttgggggag ggnnttcgtg ggagaaacag gagggcaatg 300  
 agggatgaac attgctcaaa ctcccttcaa aggggcacct gaccgcacag gggaggntgg 360  
 gcaggaaggg caagggntgg gggatgccgt ntaaggaggg cggangcagg canttttgg 419

<210> 369  
 <211> 386  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <223> Genbank Accession No. H83380

<220>  
 <221> unsure  
 <222> (1)..(386)  
 <223> n = a or c or g or t

<400> 369  
 ttaattgcag aaaaatttat taaattggaa aatcttgcgt ttttcaatgg cgctggcccc 60  
 gggtcagcgg cgattttctc tgcataaaga tgggctttgc gtttccgtag tgggcaccag 120  
 tggtggcctg attgtcagtc ttctcccgcc atttttaagg ccaggagacc gaagcgctgc 180  
 ttgtaggcga ataccctaca gacgggtttg gctttttaa ttactgttat tattttgggc 240  
 agagaacagt cgggtctgggt gcaccccgct ctcgctgcag aagaggctgc gagtccgagg 300  
 tggggtctct cggaagggtg aaattccttc tnggggntna gcgagccccg gccccgcgcg 360  
 gcagtccagc ggccccggtg ttgttg 386

<210> 370  
 <211> 335  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <223> Genbank Accession No. H84761

<220>  
 <221> unsure  
 <222> (1)..(335)  
 <223> n = a or c or g or t

<400> 370  
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 aggaaacacc ctcatagatg aaaaccccc cgagacagca gcactgcaac tgccaagcag 180  
 ccggggtagg aggggcgccc taggcacagc tgggcccttg agacagcagg gcttcgatgt 240  
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<212> DNA  
<213> Homo sapiens

<220>  
<223> Genbank Accession No. H91703

<220>  
<221> unsure  
<222> (1)..(321)  
<223> n = a or c or g or t

<400> 374  
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cccgtactcc tcccctggaa gtccaccggc aatgttatcc catttggcac gatttccaac 180  
ccttcaaccc aaggacaaat aaccccagta gggggncaat attaacatca caagcccagn 240  
aaatgattct tcttataggc tttaaataaa ccaggacttt ttaactttag ggtgaatggg 300  
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<210> 375  
<211> 395  
<212> DNA  
<213> Homo sapiens

<220>  
<223> Genbank Accession No. H94471

<220>  
<221> unsure  
<222> (1)..(395)  
<223> n = a or c or g or t

<400> 375  
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ccagggaatt tattattaat gaagtcataa aacagactta accaaaagtg tgtgctagga 180  
aacaagcagt ttcacttcag agacttcatt gcaggaaccc agtttcctta tgtggaaaaa 240  
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gcaaacaaat acatgtaggt atgaaagacc atccgtcctg ggggtngtgg aaagttaaag 360  
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<210> 376  
<211> 373  
<212> DNA  
<213> Homo sapiens

<220>  
<223> Genbank Accession No. H94475

<220>  
<221> unsure  
<222> (1)..(373)  
<223> n = a or c or g or t

<400> 376  
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ggaagtcttg cgtgacaagg cacaggggtg aggatggagg ctgatggact ctcggcaggt 240
taggccacag ccaaggctgt gccangacac gagttccacg cggggctgag gacaacgctt 300
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<210> 377

<211> 417

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. H95960

<220>

<221> unsure

<222> (1) .. (417)

<223> n = a or c or g or t

<400> 377

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<210> 378

<211> 439

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. H97538

<400> 378

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<210> 379

<211> 440

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. H98835

<220>

<221> unsure  
 <222> (1)..(440)  
 <223> n = a or c or g or t

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 ctaatccctg cgaagtgcac aatgtgtgat gactccaccc tccacccgat ccagaggggc 180  
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 agaatcgatg ggcagcagtg acttcgactg tatcatcaat cttggctgcc acaaggttgg 360  
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<210> 380  
 <211> 495  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <223> Genbank Accession No. H99035

<220>  
 <221> unsure  
 <222> (1)..(495)  
 <223> n = a or c or g or t

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 caactaagcc tttgncaaaa aagtcattta gcacatcttt aaagatcaat aagaaatgga 180  
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 aatcccatag tgctgaaggt agagggtgtc gtgcaaagct agtcatttgt taacagcaat 300  
 cagaaganga tgggggcagg cacacctgtc agagggtggc gcagactggc aggacaggac 360  
 ggctgggctg gtctggtcag gtgagcatgt cccagagaca gcagcaacag agagccgtcc 420  
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 tacactgtgg gnttt 495

<210> 381  
 <211> 424  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <223> Genbank Accession No. H99648

<220>  
 <221> unsure  
 <222> (1)..(424)  
 <223> n = a or c or g or t

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 aagtgtctcc tatatatata gacagtaaaa gtaagcaaag aaacttacaa cacattccaa 180  
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 ccat 424

<210> 382  
 <211> 438  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <223> Genbank Accession No. H99694

<220>  
 <221> unsure  
 <222> (1)..(438)  
 <223> n = a or c or g or t

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<210> 383  
 <211> 749  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <223> Genbank Accession No. J00073

<400> 383  
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 gaatcatgaa tatattcata tccgaagcg 749

<210> 384  
 <211> 1056  
 <212> DNA  
 <213> Homo sapiens



<220>

<223> Genbank Accession No. J00123

<400> 384

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<210> 385

<211> 1089

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. J00231

<220>

<221> unsure

<222> (1)..(1089)

<223> n = a or c or g or t

<400> 385

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 <212> DNA  
 <213> Homo sapiens

<220>  
 <223> Genbank Accession No. J03040

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 <211> 5416  
 <212> DNA  
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<220>  
 <223> Genbank Accession No. J03464

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<213> Homo sapiens

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<223> Genbank Accession No. L04270

<400> 397

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<211> 2828

<212> DNA

<213> Homo sapiens

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<223> Genbank Accession No. L13698

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<211> 1914

<212> DNA

<213> Homo sapiens

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<223> Genbank Accession No. L19871

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<212> DNA

<213> Homo sapiens

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<213> Homo sapiens

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<210> 426

<211> 1268

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. M33197

<400> 426

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<210> 427

<211> 1081

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. M33493

<400> 427

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gcaactgcgg gagcagcacc tctactacca ggaccagctg ctgccggtca gcaggatcat 300
cgtgcaccca cagttctaca ccgcccagat cggagcggac atcgccctgc tggagctgga 360

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ggagccggtg aaggtctcca gccacgtcca caccgtcacc ctgccccctg cctcagagac 420
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1081

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<210> 428
<211> 1056
<212> DNA
<213> Homo sapiens

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<220>
<223> Genbank Accession No. M33653

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atgggaaagg acctcgcggt aaactaggag acatgggccc tcttgggtcc caaggccccc 180
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cagagggggc tcccggacct ccggggctcc aagggtgttc tggaccaaag ggggaagcag 360
gactagacgg agcaaaaagga gagaaaggct tccagggaga aaaaggagac cgtggtcccc 420
tgggactacc cggagcttca ggtttggacg gcaggcctgg gccaccgggt actccaggac 480
caattggagt tccaggccca gcgggaccaa agggcgagag gggcagcaaa ggagaccctg 540
ggatgacagg accaacggga gcagctgggc ttcctggttt acatggacca cccggggaca 600
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1056

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<210> 429
<211> 1238
<212> DNA
<213> Homo sapiens

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<220>
<223> Genbank Accession No. M34338

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<400> 429
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cgccgccatc cgcgagggct ggttccgcga gacctgcagc ctgtggcccc gccaggccct 180
gtcgtgcag gtggagcagc tgctccacca ccggcgctcg cgctaccagg acatcctcgt 240
cttccgcagt aagacctatg gcaacgtgct ggtgttgagc ggtgtcatcc agtgcacgga 300

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gagagacgag ttctcctacc aggagatgat cgccaacctg cctctctgca gccaccccaa 360
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gcacccctcc gtggagtcgg tgggccagtg tgagatcgac gaggatgtca tccaagtctc 480
caagaagttc ctgccaggca tggccattgg ctactctagc tcgaaggtga ccctacatgt 540
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<210> 430

<211> 468

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. M34516

<400> 430

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ggaatcttga cgggtgacctg gaaggcagat ggtaccccca tcaccagggt cgtggagatg 180
accacgccct ccaaacagag caacagcaag tacatggcca gcagctacct gagcctgacg 240
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gcagagaaga cgggtggcccc tgcagaatgt tcataggttc ccagcccca gccacccac 360
aggaggcctg gagctgcagg atcccagggt aggggtctct ctccccatcc caagtcaccc 420
agcccttctc cctgcactca tgaaacccca ataaatatcc tcattgac 468

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<210> 431

<211> 1060

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. M34996

<400> 431

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gatggagatg aggagttcta cgtggacctg gagaggaagg agactgcctg gcgggtggcct 180
gagttcagca aatttgaggg ttttgaccgg caggggtgcac tgagaaacat ggctgtggca 240
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tcagagctca cagagactgt ggtctgcgcc ctgggggtgt ctgtgggcct cgtggccctt 660
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gggccattgt gaatcccatc ctggaagggg aggtgcatcg ccatctacag gagcagaaga 780
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<210> 432  
 <211> 1104  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <223> Genbank Accession No. M35252

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<400> 432
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cctaatacct ttcgaaatg gcaggtgtga gtgcctgtat aaaatattct atgtttacct 180
tcaacttctt gttctggcta tgtggtatct tgatcctagc attagcaata tgggtacgag 240
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tttaaaaaaa aaaaaaaaaa aaaa 1104

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<210> 433  
 <211> 4567  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <223> Genbank Accession No. M37984

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<400> 433
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gcgtgtttat caagagggat aaacttgata cgaactctgt acgaaggag gtgtagggtg 540
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4567

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<210> 434

<211> 1104

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. M57466

<400> 434

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1104

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<210> 435

<211> 2153

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. M60314

<400> 435

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tgctacatca atgcagcaaa aactcttaac aactgtggat aattggaaat ctgagtttca 480
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<210> 436

<211> 1568

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. M61764

<400> 436

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<212> DNA

<213> Homo sapiens

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<223> Genbank Accession No. M62831

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<212> DNA

<213> Homo sapiens

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<213> Homo sapiens

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<212> DNA

<213> Homo sapiens

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<213> Homo sapiens

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<223> Genbank Accession No. M98539

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ttccccgagc ccctgccccg gctccccgcc aaagcacccc tgcccactcg ggcttcatcc 180
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caaaggaac                                     309
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<210> 451

<211> 2653

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. M99487

<400> 451

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gcgaattcca gcctgcaggg ctgataagcg aggcattagt gagattgaga gagactttac 180
cccgccgtgg tgggtggagg gcgcgcagta gagcagcagc acaggcgcgg gtccccgggag 240
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gatgtcctgt tgtcctaccc aaataagact catcccaact acatctcaat aattaatgaa 660
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gacaaaagca acccaatagt attaagaatg atgaatgac aactcatggt tctggaaaga 2280  
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gatattgaaa gcaaagtgga cccttccaag gcctggggag aagtgaagag acagatttat 2460  
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tcttttagaga atccgtattg aatttgtgtg gtatgtcact cagaaagaat cgtaatgggt 2580  
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aaaaaaaaa aaa 2653

<210> 452

<211> 301

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. N22006

<400> 452

ttttgaattc ataatcattt attgtaaatc actcacagtt tacacattac cagtggcaaa 60  
ataacactgt taaacaccta ctggatgaag aacttcattg tgactatttc caattgccat 120  
catatctttt tctaaaattt aaaatttaac ttttaaattc tacatctttt ctgaaaatat 180  
ctatcttcaa agtgctccaa tactaacact ataagccctt tcttttgctc taacatctaa 240  
caciaagggc acactgtccc attaattcca catgcacttt acaaagcaac ttcacacaca 300  
a 301

<210> 453

<211> 450

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. N22620

<220>

<221> unsure

<222> (1) .. (450)

<223> n = a or c or g or t

<400> 453

tttcaagtca cagattacat atattttacat taattcaaat gtccaaagca cagtacagta 60  
gggtctattt aatagttcac ataatttaag atttacatat acacaagcac atgaaccaat 120  
attagtttgc tagaacaggg atttaagaag ttactcagac attttggtat tgacacttac 180  
atattttatgg caacaaatta tgatgacttt aaattttcaa tgagatcttt tgtacaagaa 240  
tacagaatgg gaagaatgta caaaatgaaa agacaggcaa acaaatgtac tttccttggc 300  
actattttcta taacaccata taggggtgtg ggctcgggtg ccgaaattcc ctggcaagcc 360  
ccgggggggtt cccacctaag ttctnaggag ccgggccgcc acccgngttg gaagctccca 420  
gctttttggt tcccctttag gtgagggtta 450

<210> 454

<211> 368

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. N23352

<220>  
 <221> unsure  
 <222> (1) .. (368)  
 <223> n = a or c or g or t

<400> 454  
 nttgcacttg gggtaatagg tttattatct ctatatacaa gtaagcattt attgatgttt 60  
 gtcaaaaata agagacaaga taacaaaaac tatttttagca tgaaaacgag atagctgcaa 120  
 tagactaata ctgagcttaa agactccaaa aagagcacag aacctgaaat gacagtgttc 180  
 aggttggtata gttatccaga caatgaagtc aactatacaa ggcaagcaac acatgacaat 240  
 aaaacaccat caacagtgtc ccaactggagg atggaggagg gcttgctggg gcctgggnaa 300  
 ctangtggga aaaatattta aaatctcata aatcctccgt atcctttttt tccnatttca 360  
 gggaactt 368

<210> 455  
 <211> 375  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <223> Genbank Accession No. N23730

<220>  
 <221> unsure  
 <222> (1) .. (375)  
 <223> n = a or c or g or t

<400> 455  
 tcgcattcaa cttaaagtnt taacatngac aatgtcttgg aacaataagc aaacaatgct 60  
 taaatgtttc attcaaattc actttccaca tgtcaaaaga cctcaaggta gaaaaaata 120  
 aaataaaaat ataaatatct gagaatccat cttaataaat aaattaaaaa cncnnnccaa 180  
 cgttttcacn nccccntggt aatgtcagaa cattcagacc acctcaacaa tgcattgatca 240  
 gtaacattac aatgaacatt gatgttgaag aaaaactaca gtacatggat atagctattt 300  
 atttctatct accagaaaat aaagtcgtat cttttcttag tataatattg gtcatttcta 360  
 atcagaacac actat 375

<210> 456  
 <211> 469  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <223> Genbank Accession No. N24761

<220>  
 <221> unsure  
 <222> (1) .. (469)  
 <223> n = a or c or g or t

<400> 456  
 anaattcaaa cttttatttg gcaataagtt cagagtcaca taacacataa aatcaacatt 60  
 taaaataaat agcaaattca catctagaat aaatagggtc gcctaatttg cattaattgt 120  
 gcctgatatc atacaggcac aatctgtcat tccacgagat aactggaaaa gtctccaaag 180  
 tcagagttca aacctgcagg actgaaaaca cacagaagca ctgtgcgagg ttgggttccc 240  
 cgaaagcaga tactgaggtg gagaatggcg tgcaggaagg ttcattaggac agtgctgtgg 300  
 gctgagccgg ctgggtacag gcttgtcagg gagaggcact gggctgtaat gtggccacaa 360



<400> 459  
 tgattattcc agaataatttt attttcccaa agaagggttaa ggatagaatt ttgtagagtt 60  
 tttgtttttt taatgcatcc aacacatagg agaattttat tttaaagccc tttttaaaaa 120  
 tgaaaattct agttgggtcat caattctctt cagagcaaac atcattttatt ctactctata 180  
 aaaagaaacc taaacaaatt aagatgacaa gtaagaaaaa cttattctctt ttatctcctt 240  
 taaaacccaaa attttagttc tgctgggctg gttttcttca aattctcatt attttaccaa 300  
 tgaggcactt tataatacaa atgcttaaag tgttgaggga ttctgactcc caaaaacatc 360  
 atttgatat aacaagattt gtactactga cgttggatat acacaattaa atcnttcctc 420  
 ctagtggatg atggaaaatn aatggttgga ngtaanaccg gatcca 466

<210> 460

<211> 221

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. N26801

<220>

<221> unsure

<222> (1)..(221)

<223> n = a or c or g or t

<400> 460  
 tttttttttc ttgatgcaaa tgtttttatt tgccacttaa actacagttt ccctgtgcta 60  
 tccngatggt gtgggggtgt ggaacaggct gctggaacca tggtttacag tagtagcagg 120  
 tagatgatta gtagcatgag tggtgaaatg ctgcatctaa gtgcctgtca ctttgctccc 180  
 aggggaatat catgcagccc aggaatagtg ttagactggg a 221

<210> 461

<211> 445

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. N26904

<220>

<221> unsure

<222> (1)..(445)

<223> n = a or c or g or t

<400> 461  
 aagtttttta aaatttatta tttattattt ctttttgctc ttgtttcggt tctcttcctt 60  
 gagcttcttt ttggagactt tgggtctatt ggcctttctg tatagggtgat acccaatgag 120  
 gccaggagg ntcggcacca tggccatccc taccagaggc aaaatgccct tcaccagctt 180  
 tanccagtag ttggctcgga ttagtgcaat cagctccacg tcatactgca ccaactgcatc 240  
 cgctgggaca gatggtggaa atccccgttt tccataggcc aagtgagaag gaatgattgc 300  
 ccttcgcttc tctcccacac acatgtcgag aagactctgc tccagacctg gaatcacctg 360  
 cttttggcca agttctataa ccagagggtc tctggtccag ggaggtgtca ataatacgtc 420  
 catctaccaa gcttcccgtg tagtg 445

<210> 462

<211> 438

<212> DNA

<213> Homo sapiens



[illegible]

**<400> 462**

<210> 463

<212> DNA

<213> Homo sapiens

<223> Genbank Accession No. N30198

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taagatataa	gtatattttc	gccaaagtaa	gtcaagaaaa	atgcacttca	gaatcagctt	120
ttattacagg	caatgtattg	taaactcgaa	catccagaat	ctgagttaca	cttattattt	180
ttaacatttt	actcaataaa	aatctgatat	actgggtcca	agtgatgaca	cattccaaat	240
taatgtaact	ttcttgcagc	ttaaataaac	aaatttagat	caccaagtga	aatcaaagcc	300
aagtgtattt	gcacaactca	agaatgatgt	gaatggatta	gaatctctca	tagtgcatac	360
ttcgccattt	atacacaaac	tttgagagtc	ttctgagtga	catggtatatt	aactttgttt	420
ccaagggcc	aataactaaaa	tgtatagaat	atcctactct	atactcacta	ttaaatgtca	480
tggactaggg	aaatctg					497

<211> 585

<212> DNA

<213> Homo sapiens

<223> Genbank Accession No. N30856

<220>

<221> unsure

<222> (1) . . (585)

<223> n = a or c or q or t

<400> 464

gattaaaaaag	agaaaaatata	ctgtaaaaata	tttattttaat	aaaaataatt	ttataatcta	60
tacagaattg	aataaaaaagt	acaacaaatt	attttcactt	atttacaaaa	ctgcatacag	120
tacaacttgc	acattgagtt	cagcattcta	taaatatggc	cacataccaa	gatgtgaaca	180
tattcttgtc	ttatataaga	aaaggctcag	gttgatgcc	acaaactttg	aattaaattc	240
cagggaaata	ttgctttggt	aacatgaaca	atgtgtacca	cattccatta	aaaaaagatt	300
taataaaaatc	cctcaaacag	cacttttcta	cttgtttcgg	agtacacaat	tcccaaatta	360
gcacaaacaa	aacaaagcaa	aaaaagaaaa	acagacagaa	tgtaaaatgn	aggttgctac	420
ttttatgata	tcacttcctt	ttccttcctt	tagctagtgg	tcctttccct	tcccctaata	480
gtaagggtgg	gngaatggaa	atggcctatt	cctatccca	tccatttgcc	tccaggatcc	540
ctgcttaacc	naatgnqgt	tggtcgnctt	qccacctgn	caccc		585

<210> 465  
 <211> 579  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <223> Genbank Accession No. N32748

<220>  
 <221> unsure  
 <222> (1) .. (579)  
 <223> n = a or c or g or t

<400> 465  
 cagcagaaga gtgacctgat tttattcacc ttttattgga aatctgtggg acagaactag 60  
 gcaatgaggg tgctacaata ataaagggtga gtgttggcag tggcttgacc agagcagaag 120  
 tgggaatgaa acagttggat tctgtttggt ttcaaagaag agctcataga acttactgat 180  
 ggnttgttat gtaggatgtg aaagaaaacc acagaaatga ctccaactaa aacagtaaaa 240  
 tgccattcac taatttcaag atgatgagag aagctgtttt gcagagataa tgaaagaaat 300  
 tctgtttgaa gcctattaaa gtttgaagtg catattaatt ggactttcaa gttgagatgt 360  
 caagtaagta gcaggggtctc tgagtatgga atacnaggct gtgggcnagt gacttancgt 420  
 ctgcaacatc cacatatagg cagcatcncc atagcaacaa acatccngtt ccaaataatc 480  
 cgccngattt tcntcctcca cgtccatctt cctcagagtc catcaggggc cncagnact 540  
 ggcnaatcca cncatgngcc cgttacctcc ttctcngca 579

<210> 466  
 <211> 355  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <223> Genbank Accession No. N33927

<220>  
 <221> unsure  
 <222> (1) .. (355)  
 <223> n = a or c or g or t

<400> 466  
 acaattctcc gcagatttta ttaattataa cttttttttt cagacgtcct gccatcttct 60  
 cattcagact tttcttagca aaggtagtcc atggcaagta atgaattccc agtaactagg 120  
 tctgtaacag aagtaaattc tgtttttatg tttataaact caaaaagtaa catgaagtgc 180  
 aaacaccttt agttccttcc cctcggtaac cttcttttga tgaaccagtg tgcagcaaac 240  
 caggatgaag ttggatttgg gtgggatcca cacaggatcat tttcaggcaa gatgagactt 300  
 cccaagtccc atgnatagat tcatattatc agttatttta tgcattcatt tctcc 355

<210> 467  
 <211> 455  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <223> Genbank Accession No. N34817

<220>  
 <221> unsure

<222> (1)..(455)

<223> n = a or c or g or t

<400> 467

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aacagggatt tatagcagct ttattcaaaa taactaaaat ttggaagcaa ccaagatgcc 60
cttcagtaag tgaatggata aactatggta cacacaatag aacataattc agcactaaaa 120
agaaatgggc tatcttgtcc tcaaaagatg aggaaactta aaagcatatt actaagtaaa 180
agaaggcagt ctgaaaaggc tacttactat ataactgcaa ctatgtaaca tgcgaaatga 240
tgagatgggt ttgcagggtt aaggggatga tatgtaataa acaggaagag cagggatgac 300
ttttagaaca aagtgttctg tgaggtacta taaggctggg atacatgtca ttatacattt 360
actccaaacc cataagcatg taaaaccncc aagagttaac ccctaattgt aaacctatgg 420
gcccttggga ccacctatgg atggcnccaa tggtta 455
```

<210> 468

<211> 412

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. N36001

<220>

<221> unsure

<222> (1)..(412)

<223> n = a or c or g or t

<400> 468

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attagtgaat tagtttattt aaaaccatca gtttttccaa tgtgaatgga ctggttcata 60
tcacaccata tttagagata caaggtgatt ataactaacg tgtctacaag acatactggg 120
tcaaacaatg tgatcaatcc aaagggtatc tttttaaaaa gaatttaagt actcagctgc 180
aaagataagt tcactaatga gattttcttt tttttttttt taaaaaaaaa aggtttttta 240
tgagtcaaatt ttattacaaa aacttagtgt gtaatcaaag ccaaatacat tcctcaggca 300
tgccagcgga acgcaaaata atgttaatat aatgttatta aaaaataaaa ctttttctga 360
atgatataata taanacctca tggcacatta tcctcatttg gacaacngga aa 412
```

<210> 469

<211> 430

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. N39415

<400> 469

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cagagaataa catttatattt atttggaag ttttcctaaa tatgagacta tctgctattt 60
ctcagactaa gtgaaaaatt taataaaaata gctgccttga taggaggaaa acaaagttct 120
tactttataa ggaataacgt atgaatcata aaagaagaat gagcgatcat gggaaacatt 180
tagcttttca aagtttttgg aacatgtacc ttaaatgctt ttgggatcca gtaaaggcca 240
ggaaaggcaa agagttgaaa gtttcttgga tttatcctcg tacttacatc attagtaata 300
ggaataatgc atctcaaatt tggggcattt atataaaaac atgattttta aatggtagtc 360
tagtataaac taggattttg taatgctgtt taaatatttt catattactt tgtttcgaac 420
gtagacattc 430
```

<210> 470

<211> 443

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. N40141

<400> 470

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gctgactcaa gttcttcagt tcacgatctt ctagttgcag cgatgagtgc acgagtgaga 60
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cccggatgaat ctcagcaaga ggaaccacca actgacaatc aggatattga acctggacaa 180
gagagagaag gaacacctcc gatcgaagaa cgtaaagtag aaggtgattg ccaggaaatg 240
gatctggaaa agactcggag tgagcgtgga gatggctctg atgtaaaaga gaagactcca 300
cctaataccta agcatgctaa gactaaagaa gcaggagatg ggcagccata agttaaaaaag 360
aagacaagct gaagctacac acatggctga tgtcacattg aaaatgtgac ttgaaaattt 420
tgaaaattct ctccaataaa gtt                                     443
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<210> 471

<211> 513

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. N47686

<220>

<221> unsure

<222> (1) .. (513)

<223> n = a or c or g or t

<400> 471

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atatcaataa atactaatag tttgttttca ctctctcctt ctgttggagc acttttgactt 120
tatatacatt ccagtccttag tgccaaggcc ccattgggtt tcaaattcca taccagagca 180
catcacctgg atgtgactct catatgctca aggatattcc tggagttgaa aggaaatata 240
aaatgagcat aagaacagat tacagacgag tcagtatgaa agttgatact cgtgaaaaaac 300
agcagtttgc tgagaccctg gaagtttagct ggagcagtcg ggcagaaatg actcgtgacc 360
atggctgcaa atggggcttg ttctcacaaa gggctttcca ccattctttt cttgggcttg 420
caggtagaag atgcgggttt ctccaggata agtaacttta ctgaggggca tctttagat 480
gttggaattt tttgtggtca tgatgaggaa cnt                                     513
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<210> 472

<211> 442

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. N48056

<400> 472

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atataatatt caactttatt tcaaatatac caattttaaa atttatcaat ataccatta 60
cgattctttc tgagtgcacat accacacaaa ttcaatacgg attctctaaa gaatcctctt 120
aggctacttc actcaaagtc tctgcagctg cctgcactgt gaaggctgca acataaatct 180
gtctcttcac ttctccccag gccttggaag ggtccacttt gctttcaata tcaaacagag 240
catcataaat tcctgggaat gactcccctg cataacttgt gtggctgctt ggagcataga 300
tgacatgcct ataaaaaggc ctgtctggta accctaattg atcaataaat gctctttcca 360
gaaacatgag ttgatcatc atcattctta atactattgg gttgcttttg gtcaaagtcc 420
tgagtgctct cactgaactt gg                                     442
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<210> 473  
 <211> 475  
 <212> DNA  
 <213> Homo sapiens  
  
 <220>  
 <223> Genbank Accession No. N49899  
  
 <400> 473  
 ttccaacaac atttggttta taaaggaata caaacaggca caaaacatgg ttcagaagat 60  
 ttattaagta aacttgctaa aatatggaca gatacactta gcagtcaaac agttgaatat 120  
 taattgctac ctcattaaag tttttgtatc tgtattacca ggtccaaaca taaaaccac 180  
 ctctgttcaa aaaataaatg ttcagagagc tgtatgttct ttgttcttgt atgtacattt 240  
 taaaaaaaca cctctttcca gtcttgctaa ccaagaatat tagtcatata aaagaactta 300  
 gaattttttt cccaagtac aagctatctt ttggctccaa aacagttctg aaggttttat 360  
 ttatatatta tcttatcccg agggaccaac agcagggcat acctttggcc aggccttctt 420  
 ggcagaaaga cacagagccg taaaggga aaataaaatt gccataaagg tatag 475

<210> 474  
 <211> 474  
 <212> DNA  
 <213> Homo sapiens  
  
 <220>  
 <223> Genbank Accession No. N51529

<220>  
 <221> unsure  
 <222> (1)..(474)  
 <223> n = a or c or g or t

<400> 474  
 gcaaaaaata aatataaaat ttattaaaac acccacaata ttttaaagat accaggagta 60  
 atacagttca caaaccagtg tggttggtga aattataata aaatacaaat caaaaaggat 120  
 acatacttgc aattttctagg caccctaaat taaatttact gaaacactga gggagaagg 180  
 agggtaagga ggggtagctc agggaggcaa ccaataaagt ggaaggaaaa aatattaaca 240  
 aaaaggtaaa aattatacaa aataaaatta tcagcgtaaa tttactgtac taagaatata 300  
 tacagtttaa tacacatcct attgcccttg agacatttgc aaaaatctac cattcatcca 360  
 tcaacccagc attaaacttc attttcaagt agccccagtt ttaccaagtc nagacnggaa 420  
 tatttccagt atgggttggt aagttcacct ccantgggag gccaggttac ccaa 474

<210> 475  
 <211> 507  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <223> Genbank Accession No. N52254

<220>  
 <221> unsure  
 <222> (1)..(507)  
 <223> n = a or c or g or t

<400> 475  
 tttctattaa tctttattta tatgatgggt ctctggaaag cacttcattt taaaacctgt 60

```

ttctgagata agtagcataa ggcgcatttg aagaaatact attggtgtat cacagagaac 120
ttccatgcct tgaaatcatt tttttcagag tattattaat aagatgggtct agctatgcag 180
agcaaaaaag aaaaaaaatc ttcaaaagcc aagactgtca ggcacatgaa ggtatgcata 240
aactgtcttc acatttaatt ttgtatgatt cgggagatac ctccatgtac atctaaccag 300
gtcaggcagc ataagtcctc agtaaccctg ggggtgtgccg gcttcaagcc aaagtattct 360
gttgagtttg gtttgtggag agacatttga aatgttgctt catagcttcc attttctgga 420
gaagtggag aaatgaagcg tnaaaaggcc taggaaatcc tcgtcttctc caggctcttc 480
ttctccttct gcagnttctt cctcctc 507

```

<210> 476

<211> 166

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. N53359

<400> 476

```

catctaaaag tgggttttta atatatatat tttttccaaa ggaagaaatt tcttgctttt 60
actcagggaa aaaaaaaaaa ttaaggtaca tttgagtaga atgatttcat ctaaaagagt 120
tctttcagga gacatctgtg attcactgca ttgtttttat tttctt 166

```

<210> 477

<211> 380

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. N53447

<400> 477

```

gtatagagta aaattttatta tagggttgta gaattcatac aacctaaact ccttacagca 60
ttcagcacct acacaatttt gtgcattcca aatacagata gtagtgagaa agaatcactg 120
cattagttaa aaatgactgt ctcatgaaaa ttctgtcaca tataagtcag gttaattaca 180
gagcacctaa cagaactgca aagatgtaat ttctaaattc aagaaagttg tacaaaatga 240
aaaacaaaag aaaccaacaa tgttgagatc tgatatattt tacacaaaaa gttcaaaaac 300
aattttaaatt atttcaaatt ttaaaattgc tccaccataa gatgaataaa gagcttactt 360
aaaggaaaag aaaaaaggaa 380

```

<210> 478

<211> 400

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. N55502

<400> 478

```

ctgtgaataa aacttttaatt aatgtacagc agaaattgga caggctcatt cttatattaa 60
aacaaaagat ttcttatatt acaatttatt tacatttgca tactgaagag gtaaagtgtc 120
taagtggcta ttttacagtc ctttctaata aaatgtacaa aaacaaacag aagtaccgag 180
aatgccgttc gggggccttt atggcgacgt aagaacgggc ttggacttgg tctgtgaatc 240
cagaatccag aggtgcaggt agcactactg gatcagggtt agcctcgggg ggccaaaaac 300
acggcttcag tttctcccca actctcactt agtggttaaga gtggcagagg tgggtgtggg 360
agcttcccaa agacctgtc catcttcccc agagggtggaa 400

```

<210> 479  
 <211> 430  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <223> Genbank Accession No. N57577

<400> 479  
 ttccctcagg tggttaaagg ccaccaaaca aatactgggc aacagggggt tgttgggaga 60  
 gttagaaata aaaaattaac caaattttgt ccctgtgtta attcaatgcc agcaaggagg 120  
 caagtactga agaagaaaag ggacaatttt cactactaaa aagaattcct ctaatcatgt 180  
 caccatctca tataatgaat ccagggaatc ccagaaatag aaaattagtt tcaggggacc 240  
 cctgaggcac tttaaagcct tttaaaaaat tacagtaata ataaattaga tattgctctt 300  
 cagaggctaa cagagcagca gaagcatcaa gatcagggtc aaagagttat gccacattt 360  
 acaggcttcc tggagctgct cagccctctt ttaaagctta gttgaatcct taaaatacc 420  
 ctttaaaaag 430

<210> 480  
 <211> 369  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <223> Genbank Accession No. N58172

<400> 480  
 cctgaccgta ctccctcaaaa tccagattgt ttgtgcatac atttaaaaaa aaaatcaatg 60  
 gaaatttcca cctttgttcg aacacataaa gtatgccatg agcaatataa catcacaaac 120  
 gtactgtgac aaaccattaa taaagaagga ttactaagcc aggtgtggtg gtgcatgcct 180  
 gtgccccagc tatgcaggag gctgaggcag gaggatcact tgagccccgg agtttgagtc 240  
 caccctgggt aacacaccaa ggactccatc tctaaaaaat taaaattaaa aggattactg 300  
 aaagatctca tttctaaaaa aagaaaaaag aaaaagatca ctggaagtcc agacatgata 360  
 tttttaatt 369

<210> 481  
 <211> 445  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <223> Genbank Accession No. N59532

<400> 481  
 ggcaagtaag aaggaagttt aatttttttt tcaggattca gtggagtcca ttaatgcata 60  
 ccaggggcaa agatcagccc agggtaaggc aagtctggga ggaagccac cctgccctac 120  
 agcagccctg gaactcagaa taggtggtga gtctgccatg gtttgctact gggcagcaca 180  
 ctagaccaac ttgggaatgt ggaagagtga gtctatgttc cctcagccat cccaagttt 240  
 acacacaggc atagcagccc tactgtgagt cagcaatcat tcctgacttg cagtaaggac 300  
 aatttgcatt tacggaagc aaactggagg gggtagccta agtccgcaact gcccatgtta 360  
 ttaccctttg caatgtgaaa aaccatggtg aggtagggtg ggcaggtttt atcctctcca 420  
 caaagggtgag cctttgctcc acagc 445

<210> 482  
 <211> 473  
 <212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. N59831

<220>

<221> unsure

<222> (1) .. (473)

<223> n = a or c or g or t

<400> 482

```
acctataaat atatttttatt catacttttta aatatttttac aattcaaata aaaaccttat 60
atgtagacaa tctgggctaa atttccatgt atgttttgaa aaataatgtt agcatgaata 120
gattcatatt taaatatgat tttaaatact cttaatagag gagacataag aaatatttac 180
ataaaagcta agtagcatga tacagctcat gggtatttttc ctcataggaa aacaattact 240
tgattttttt tttttgcata ggattaagac tgagtatctt ttctacattc ttttaacttt 300
ctaaggggca cttctcaaaa cacagaccag gtagcaaadc tccactggcn ctaaggntct 360
caccaccact tttctcacac cnaagcaata ggtaggnatc caggncaccac cttctgaggg 420
nccggaagga atgggttccg gaaaataatg gnttttaaaa nattaccatt aag 473
```

<210> 483

<211> 441

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. N59866

<400> 483

```
gttttttttt tttttttaat acaaaaattta ttttattttct atgtactaac aatgaacaat 60
gggaggtatt tacaattaca gtcaaaacca taaaacactt agaattttac aaacttcaag 120
acctacacac tgaaaactat aaaacatttc cgagaagtca aagactaaat aaatggaaga 180
tgatactatg ttcatacaatt agagtactta atatgttatt aattctcact aaattgattt 240
atagattcca tacaatcctg ctcaaaatcc cagcaggctt tattctgggg aaatattgac 300
aacctaattc caaatgttat agggaaatgc aaaggaccta gaacagccaa aacaacttga 360
taaaaggaca aaattgaaat ccttaaattt gactcccata tttccaacaa atctacagta 420
attaagacaa tggatatagg g 441
```

<210> 484

<211> 419

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. N63047

<220>

<221> unsure

<222> (1) .. (419)

<223> n = a or c or g or t

<400> 484

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nttatttttaa ataaatattt taattctatt gttgacattt acaagtagaa agcatacagt 60
atgttacaaa tatcaaaatg agaaaaatat gaatgttaca taagtaacaa atataaaaaa 120
agtattttct taccttcctt gaaaagtaaga aaactattca gcataggaaa atatcagtat 180
caaaaacaca gcttaggtgt aaaaaaagtt tttacacagt atttaaaaaa aatgatctac 240
```



aaaatgacaa agtaagtgtt gaaatctgat ttcataataa ttataaaaac tgggtactta 300  
 gagtaaagtgt tatctgggtg gaaaataagt ccaatcataa gctttcctta ggtcaattct 360  
 ttaaaatatt aaaagcatat cgaaaaattt tccaataaat aaccttnaag aggggttcc 419

<210> 485  
 <211> 189  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <223> Genbank Accession No. N63536

<220>  
 <221> unsure  
 <222> (1) .. (189)  
 <223> n = a or c or g or t

<400> 485  
 nagcaagcaa aaaactacct ttatatatga tgttattcaa atacatggat aagataacac 60  
 attttatgat gtaaaaagta atatttaaaa attaaaaggc aagtctttct ggtattcaga 120  
 agtctgaagc aaccactgtc cagctcttta aaaagagcac attccattct ggtggcacac 180  
 aaatgtaca 189

<210> 486  
 <211> 523  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <223> Genbank Accession No. N64683

<220>  
 <221> unsure  
 <222> (1) .. (523)  
 <223> n = a or c or g or t

<400> 486  
 acaacttttt taatatatat ttttataaac aggtcacgtg ataaaatagc acaagaaaca 60  
 cttaccaaata ataagggttat atcttcgcga tatacaggag aatgaggctg ttatgtacaa 120  
 taagaaaatg attttagggg ttgggtgggt ttgttttcct ctctccctt aatttttctt 180  
 cctacagtcg ttggaaatat cacagcttca gttgcattaa tactttgggc aaatggacag 240  
 ctgccccctc ccactagggg tctgtgggga ggaggggctg gagaaactgg ctctgacca 300  
 ctgagccctg gagcttctct gggctggcac tccagggaca ggaaaatctt tgggctgttg 360  
 atctgtttct gattcaacag catctctctc tctctttnc ctctctctcn cagtctcatt 420  
 ctctctctca ctctctggct ctctgggaaa cgggtactct cttccaacca gatagggagt 480  
 gtcccaagat tgggtgtggg gcgcggtatc tcctggggnc ttt 523

<210> 487  
 <211> 401  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <223> Genbank Accession No. N66802

<220>

<221> unsure  
 <222> (1)..(401)  
 <223> n = a or c or g or t

<400> 487  
 ttttttttca ggccaaacta aagctttatg ctataaaaaac aagaaataaa ataaggagat 60  
 ttataggccg gctgattgtc agcaaacaca atatatattac tgtatttagca tttgctcaca 120  
 gtgcaaatgg tacaacatta caccatttca atatttcggg ttttaaaaaat gctgttttca 180  
 ttaactatat tatattggca ttacaatatg acaaaggagc aaatgaaatg ttgggtgaaga 240  
 atttcacctt ttcacaatat caagcatatt tttttaacct tagtataagg tactataaat 300  
 ccaagaaata aaaacatcca caaaatatat tacatctngg tttgtctttt ttctaagtac 360  
 tcaactttat acaaaagtct ttcaaaaaat atcattttccc c 401

<210> 488  
 <211> 451  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <223> Genbank Accession No. N67041

<400> 488  
 aacatttcat ggaaaacttt ttattggttt tctggataga aacaggaatt tatttgccag 60  
 gaagaatgat cccatcatatc ttcagctaga accagtgatg aggatgattc agtcttaaaa 120  
 aagaaggaaa tccagtcata agctacagca tgtatgaatg ttaagtgaatg tacgccagtc 180  
 acaaaagaca aatactgtgt aggtatccaa agtaaatcaaa ctcatagaaa cagaaagtag 240  
 aatacttgtc gccaggggtt gcaaggacca ggaaatggag agctgttatt caatgggtat 300  
 agtttcagtc aagtaaaaata aaagaagttg tacaacaatg tatatatggg taacaatact 360  
 gtattgtaca gttaaaaatt aagataaact tggatactta tttttaatgg acaattttta 420  
 aaaataggtg tgggtaacaa tttccaatgg g 451

<210> 489  
 <211> 231  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <223> Genbank Accession No. N67575

<400> 489  
 tctattttaga tcggatttta ttttgcaata tttattatat attcaattca aatgtactca 60  
 ctattgtgct aggcaattga aagtaaaaag tataaagctg cattttgcgc tctcagtgag 120  
 gtttaagtca gggaaatgag gcatgcacac aaaataacga gaaagtagta taatagctgt 180  
 gatcattagt tatcaaaata agtgaatgag ctaataatca ttggttagaat a 231

<210> 490  
 <211> 334  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <223> Genbank Accession No. N67815

<220>  
 <221> unsure  
 <222> (1)..(334)

<223> n = a or c or g or t

<400> 490

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tttttttttt tggtaaagac ttttaagaga aagaagtatt ttaaaaagta gcagtgtctct 60
gaggctcagg gtgtaggata gggggcacag ctgggtcccgg gaggcccctt gtgcacaggt 120
ggtggcccag ggcnaagtgc tgcgtcttgg gggacgcgcg gccgggggac ngccatcgtn 180
tccggcccgg ggctcccggc gggctccggc ggcagggaca atggcgaggc cgctcaccac 240
ttnaggaana ccatcccggc caggacggtn tagcccagca ccaggaagag gaccttnagc 300
anacggtcac tcttctctc canctccttg gccca 334
```

<210> 491

<211> 478

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. N67876

<220>

<221> unsure

<222> (1)..(478)

<223> n = a or c or g or t

<400> 491

```
agtcaagtac tttcttaaag aaacaatagc accacattgg catagctggg ccaaacaata 60
aatgggaaag caaaatgtgc tacatctttt attctaagcc ttctcccaag tgcataaaat 120
agtaacagaa accctggagc cacagagcat gagatcggtt tcatctacac aaacattgac 180
gttccaagga gaggaaggat tctcaagggt ggacaggctt tttgtttgtt tgtttgtttt 240
ttaataaaat tttcaaggaa gtgatttctt ttcagtattc cattggatcc ttaggggtgaa 300
tgtgtgtgtg tgtgtgtgtg tgtgtgtgtg tgtgtgtgtg tctgtgtatg taggggtgggt 360
gttaagagat tttcatatcc ctaagaaaga gtggattcng atggagagct gcattaactt 420
tttcaggggga actgcctcat cttaaaaagt ncaaattctg tgccgaattc ctgcagcc 478
```

<210> 492

<211> 415

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. N68350

<400> 492

```
accggctaaa agctttaatc cagagcctgc cctactctga tagtaccaga gtggaggggca 60
gaataccaaa tgtccaggaa ccaaaggcag ggctgtgggg acctgaagag cagcacagtg 120
gggcccgtgc tgctgtgggg gaaactgagg ctgggagctc agcagagacc ggtgtcaaga 180
gtctctggga actgcatagg cctgaggaac atgcattttc aagttgtcca ttgatggttt 240
cgtacctgaa tttctcacct tttgtgaaca tcttgggagg gtggggggtt tgcaggggtg 300
ttaaaagcaa ggcttgggag cccctttcct ccagctgggtg gctccttctc agggcctggc 360
ctcattcagg ccactttgta gagaaatgcc ctgacctcgc aggaaggatt tcccc 415
```

<210> 493

<211> 285

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. N69207

<400> 493

```
tttcttttatt atactttttat tgtttgttta attcattttt gtctgtttaca aataaaatttc 60
aaactagaga gtcacagatg ttaataaaact cgcccaatgc atcacctgcc tccgaattcc 120
atagttttcca ctgccttgcg ctacttgcat tctgattaga gaatggtaat gtgtgcctct 180
ctgaatcaag ttcaagaata aatgccctat cctggctaac acggtgaaac cccgtctcta 240
ctaaaaatac aaaaaattag ccgggcgacg atggcgggcg cctgc 285
```

<210> 494

<211> 293

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. N69222

<220>

<221> unsure

<222> (1) .. (284)

<223> n = a or c or g or t

<400> 494

```
ttttatgagc aagcgtgggt tatttcataa atgcaagggt agcttaacat tgaaaactta 60
atctaattta taattatgta aatgaaagaa taaaaataat atgatcacgt taatatttac 120
agaaactgca ttaataaaaa ttcaacattc attcatgatt taaacaataa aagaaaactc 180
ttaacaaata agaatagaag anaccttcaa cagtctgact ttaaaaagag aaagccccag 240
aaagcctatg naaacatttt acttaatggt aagataaagt ttttttctaa aaa 293
```

<210> 495

<211> 320

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. N72253

<220>

<221> unsure

<222> (1) .. (320)

<223> n = a or c or g or t

<400> 495

```
ccttttttctt aaggaatcca ttcatgttgg aagcccagat tccctaacat atgcactagt 60
ggttggctctt gggaagtaac agtcaccaga gtctggaagt tcttcgcttg aactttgagt 120
agccactgggt actattggaa gccagatggc canggtattg gnaaatgggc aaggggaaat 180
cccaagctgg gctcaagagc cgtgggttag ggaagaagaa ggtcaagtgg actggtaaaa 240
attctacttc aactgccctt attcatagat acaactttcc taacagtctc actctccacc 300
agtcccatat ccacaacca 320
```

<210> 496

<211> 465

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. N74291

<220>

<221> unsure

<222> (1) .. (465)

<223> n = a or c or g or t

<400> 496

```
agagaataaa acttggattt attcagaccg tatgcttccc atttgggggtg cagagtgggg 60
gacagtcatg gggacagaga aaggcagtgc atttggcttc tagggacatg ctgattgctg 120
actcttttggg tgacctttgg gccaccagat gaccagctga atgatggaga tggatgaa 180
ggggctggcg gccaggctct tctggagacc tcacagtgat tccaaacaga gaccaacgct 240
gtgtccagtt ggctctgttc ctctccaggg attaaggagc agatggctgg gaacactcag 300
actaattaaa gaaataaaaa ctctgggtag agggacactc tggggggctc caattcaggc 360
agtgggtgtg aaattcacac atgtcgatgc gtgggcccagg cccgtgtgaa aaacatgtgt 420
gtgtcngtat atattacatc ctccacaagc anctgggagc cccca 465
```

<210> 497

<211> 212

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. N75870

<400> 497

```
tcagcactga tggaaaatac cagtgttggg ttttttttta gttgccaaaca gttgtatgtt 60
tgctgattat ttatgacctg aactgattat ttatgacctg aaataatata tttcttcttc 120
taagaagaca ttttgttaca taaggatgac ttttttatac aatggaataa attatggcat 180
ttctattgaa aaaaaaaaaa aaaaaaaaaa aa 212
```

<210> 498

<211> 229

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. N75960

<400> 498

```
ttaaattaat agatcaaaaag ctgctcgcac tacagagaca accaatagta tgaaaaaacc 60
agcatgctat caccaaaatc caaactaaga aaaactctac aaggtaaaca acacaacttc 120
ttcaacaaat atattgtaag agggcagaga gatgctgatg aaccaatagg tgagtgaacc 180
ccaaacctgc agcttcagat cacctgggaa tttggtagag atgcaattt 229
```

<210> 499

<211> 440

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. N78630

<220>

<221> unsure

<222> (1) .. (440)

<223> n = a or c or g or t

<400> 499

```
gtttattaaa ccagatttat tctccacaag ctgaagatac ctgagggttac atgaggactg 60
gcattaaaata atttataaat gtatTTTTga ctgacagact tttatcataa ggattcatgt 120
gtttacaaaa gcaaaatcca acctctccag agctagaaaag tgggaagggtg cccgggctgc 180
aacacagcct tgggggagga tgaggccaca taattctctc tgcccacact ctcagaatgc 240
cccaagaagt tagtagctac acaaagccaa gccttggggg aaaacctggt ccgtggtgtg 300
gactctccaa aatgcagacc caaccggang ccgggcccgc ctttccatct ggaggcactg 360
cagggcttct gaaagcggcc catcccagga gcctggcaaa cacccccaga gaccctcagg 420
atgcgcagcc ccggggcttt                                     440
```

<210> 500

<211> 144

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. N79070

<400> 500

```
catttcttat aaatttatta cataataata ttataataat tattatcaat aataataata 60
taagaaacat agatctctgt ggggcgtatc acaacgtcag ggtcaggagg cctcaggact 120
ggagcagggg gtgaaacccc gggga                                     144
```

<210> 501

<211> 446

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. N79778

<400> 501

```
atgttagaaa attttaatat atgatttttg tagggccaat acatagtaaa gacatagctt 60
tatttcaatt gaaccgaata aaatgatgta tttcagtaaa ttaaggcaaa ggagatagat 120
gctatgacca gtggtgcaaa atttttcaaa aattttataca ttagatttac ctttacaagg 180
ttatagtcaa gaataattaa tttgtatTTT aagcaaactc tactgctttt caaaaaaatgt 240
cttaatcttg agtgaggaat agtgaaggta atcttaatat actgtttaac tttaaaaaat 300
aatttttagaa ttatagaaaa gtttcaaaaa gagtatagaa tttatgcaca cccttctgcc 360
agctttcctt aatgttaaca atgtacataa ccataatatg attttccaaa accaggaaat 420
taacattaca gtagtgTTTT aatttt                                     446
```

<210> 502

<211> 409

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. N80129

<220>

<221> unsure

<222> (1)..(409)

<223> n = a or c or g or t

```
<400> 502
agtctagatg aattttattgc cattcacata ttcatagaa aaaaagatgt agcaaacggg 60
tcagggttgt acaaaaaaaaa aaaaaaatcc aggtttatat aggttgctct atttacatct 120
gagagcacag ctgtcctggc atcaggcaca gcagctgcac ttgtctgacg tccctttgca 180
gatgcagccc tgggcacact tggcacagcc cacaggngang caggagcag cagctcttct 240
tgcaggaggt gcattttgcac tctttgcatt tgcaggagcc ggcacaggca caggagccaa 300
caggcgangc aggagcagtt ggggtccatt tcgaggcaag gagaagcagg agttccccgat 360
tcaagaggaa aacacgcagc gggacagatt ctctgtgccga attcttggc 409
```

<210> 503

<211> 406

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. N80152

```
<400> 503
acctctgtca atgattcttt tgagaaaagc acccataatt tgctacttga ggatttttatt 60
ccctggattc tctggatgct cattgcatga aaagtggaaa agtttagatc tatggaaaca 120
gaactgttgc ctatatcgga aaatcagtcg cttgtggaat acaggtaaga acagtgttgc 180
tcttgaaaaa gtggacagtg ggtggtctga atgtgtcctg gtccctggag tgggttttta 240
gattgatgtg gactcttctt agacttgtaa gtaaaaaagt tgtttcttcc cctaaaaggg 300
aactcgtgcg ccttagacct ggggaatttg tgggaaactg aaacattctg tagactttac 360
ttgtttccaa ctgtatcgca gcaagaagtc tatgtgcccc aggatc 406
```

<210> 504

<211> 508

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. N91461

<220>

<221> unsure

<222> (1) .. (508)

<223> n = a or c or g or t

```
<400> 504
ctttacattg tctaataagc ttgtttatta ttttaagctg gtaaaaagag acttatgatt 60
catgttgaag aaagagttat ttgtgcttga tacattgaag acactgttca aaagcagttt 120
gtccttataa aaggatgacc cctgtagtat ttcttaggca aggagggaca aattcaacca 180
acgaaaagca catctcgccc cgagttcccc atgatttctc cacatatagc aaaaaaatac 240
acatcagtaa tttatttgaa catgcacatc agtgagtagg cancagttct ncggcgggcta 300
ctcaagacaa caanngggag aatatcagca ttacctaaat aaaaaagaga ggtgaatcac 360
accattttta ttgtcttaaa aacacggata agaagagcaa ttaaaatata gtcttaacaa 420
gtactagcta atgtagatta cntaagtata ccatatgatt ccactaatag tgctctgaca 480
agcataaccn ccagttctag ttaaccag 508
```

<210> 505

<211> 154

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. N91887

<220>

<221> unsure

<222> (1) .. (154)

<223> n = a or c or g or t

<400> 505

atattttatta tttttattgct acattggaag tgaaaataaa ctgtaagaag ctgccaaagg 60  
atgcaacttc atgaagatta tgaaactatt gaggcacca ttgtagaaag ttaaaattgg 120  
cttatcctgc atgaggtgga agcnaaggcc tccc 154

<210> 506

<211> 169

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. N91971

<400> 506

gttttgaaca cagatcactt tattggcatg gctttgtttt aagaaaagga aaagtgacaa 60  
agccaagaga cagactctgc taacagatgc ctgggggtgg ctggacattt ttgcctcatg 120  
ctgtgcaaag aggggggatcc tggcccacac atcctgctga ttccttggg 169

<210> 507

<211> 139

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. N91973

<400> 507

tttttttttt tttttttttt atggggcagc ggggggtcttt attcgtcaga ttttccttct 60  
tggcctactc cccaggtgtg gccagggata gtccatacag tgtgggtact gcaagggtcag 120  
gatggccagc agaccagc 139

<210> 508

<211> 395

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. N92239

<220>

<221> unsure

<222> (1) .. (395)

<223> n = a or c or g or t

<400> 508

tcagaaaact aaagcagcac ctttatttta tacatacaaa cagtataaaa tgttttattag 60  
gtaagagctg tgttttgttt acaatatatt atattgcttc aagccaatgc aaaaagttca 120  
tacattatat tccctatttc attgtgttta gaatatatta tattgtttta atgccantac 180  
cacagtgtaa tttttttttt ttttaactg aatctctgga ataatggtaa ggtcaaaaata 240



```

tattgtattg agagttttaa aattaagagc aattttttaa aatgtaacaa acatctaaat 300
atctgacaat aaaatctgaa atgctgtaac ttcaacatta actgcaccat ccaaattctt 360
gtgacttacg cattttgccc catttaacct ttctg                                     395
    
```

```

<210> 509
<211> 510
<212> DNA
<213> Homo sapiens
    
```

```

<220>
<223> Genbank Accession No. N92502
    
```

```

<220>
<221> unsure
<222> (1) .. (510)
<223> n = a or c or g or t
    
```

```

<400> 509
ttttttatac aaacaagttt cttttattgt ttccacacat tcataataac tatagaacag 60
aaagattggt ttaatttgct gtcctacttc ggtgacctga tgaatacact ggtaacagtc 120
cccagtttga gtaagatcag ttgaagccct tactgtataa gtccaaaatt taagaaaaat 180
gaatctcacg atgagcttcc tcaggcttcg gccgtgcgtg gaccagtcag cttccgggtg 240
tgactggagc agggcttggt gtcttcttca gggtcactct gaaaggggtg tctgggcttg 300
gtcttgccct ccagggttca cgcgctgcag gttttacatg gctgtggtgg atccaggctg 360
ggattccctt tacttcacag cgggtgggagg gctcagaacg acagctgggg tctttccaca 420
gtggacacaa agaggtacgt tccagttctt gatcaaattg atcactgggg agaaaagggtg 480
aactggggag aataantaac aggccattta                                     510
    
```

```

<210> 510
<211> 270
<212> DNA
<213> Homo sapiens
    
```

```

<220>
<223> Genbank Accession No. N93798
    
```

```

<220>
<221> unsure
<222> (1) .. (270)
<223> n = a or c or g or t
    
```

```

<400> 510
cacggctcct gttttattgc cttcgggtgt ccggagcacc tgactgcccc ggggtctaat 60
aatttaaggt gccgagaaca ggtcaggaca aggggtcgca aaanaggggc tgggggcagn 120
tggttacaaa atataccccc accccacaac aaacaggcta gaggagacca gcctggctgt 180
gtcgggaggg ggcgggcaga gggcgcccgga ccagccttca gagagacaga gccacggcca 240
gcgccccaga gggagtggcg gagacaggac                                     270
    
```

```

<210> 511
<211> 399
<212> DNA
<213> Homo sapiens
    
```

```

<220>
<223> Genbank Accession No. N94303
    
```

<220>  
 <221> unsure  
 <222> (1)..(399)  
 <223> n = a or c or g or t

<400> 511  
 ttttttagca agacaagggtg ttttttattga ggtctcagga attgcaattt gggagacaga 60  
 ttcagctaga agccacttgt gttctgaaga gagagggtag aggaggggtt tttaaaaaaa 120  
 gctgaggggtg attagacaag ttgacaagtt gttttgaaag aggcaactgg cttagtacaa 180  
 aaatccatag tttattgggtt ggtgctgttg aggagtgtga gtgctgggtga aataaaattt 240  
 tccaggatgc agtgggtcatc gcaatttggc ccaattcaaa ggttcaaggt aagctcctgt 300  
 attgtttttt tttttggagc ttttaatttt ttttcaagtt gcaggtcag tagggagtcc 360  
 nttttaagaa tggtcttctc cctccaattt agagttcct 399

<210> 512  
 <211> 508  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <223> Genbank Accession No. N94424

<220>  
 <221> unsure  
 <222> (1)..(508)  
 <223> n = a or c or g or t

<400> 512  
 tttttttttt ttattattta gaaatgtaaa catttattta aaagtaggta gcaagttaaa 60  
 aatgaatact tgcttgaaat cataaaacat aatcaagttc tttttaaaac agttaatttt 120  
 tttcctataa ttacttttca tcgaaagtat attatctttg ttttaacatgc tagatagaag 180  
 caattttagca acataaaata tattagctat agtatgttca aaagaatgag aaatataaat 240  
 tcagagatga gaccatcatt ttttgcagtt aaaaaaaaaa atgttgattc tgggtgcaaca 300  
 tacactgatt atccagggtt tacatttttag ggctgaaacc ctgaggaacc tgctgggtgac 360  
 tgtttagcac tngagcagag ttcagtgtgg catgcgcttc ccagagttaa aagcnaaagc 420  
 agactggaga aacnaaaaaac ccacatcctt ggcatttcng aggttttcac ctggtaatcn 480  
 taggggttcc ccaattttatt agaattgtt 508

<210> 513  
 <211> 462  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <223> Genbank Accession No. N95495

<220>  
 <221> unsure  
 <222> (1)..(462)  
 <223> n = a or c or g or t

<400> 513  
 tttttgcaa acattagagt ttgtttttatt gcatgacgtt tgcataagaa aaaaagttat 60  
 tgaaaactgt aaggcatcat gcaatcattg aataagctaa ttattaactg tacacttaag 120  
 ataggtggac atataatcta aaatttataa actagttcca gaaaagtaca taaaaaattt 180  
 aacatgatga gcttttaaat atggtttata gtttcagttt gttaaaaagt gtttcaaatg 240





<222> (1)..(413)

<223> n = a or c or g or t

<400> 519

```
ttggnttgag tttggccttt cctactgcag ccaggtgaga gcttaagatg tcagtcccca 60
atatcttcac agagtgcctt tatgaccagt ttggagaatt acgatggtaa ggggaagagg 120
cagatatgaa gaggaatggg taggggaatt gtcattcata actctgtgct atattacttg 180
aggggctaag aaaaatgtat ggtcagtga acacagtagt gtacccttaa atgccttata 240
aaagaccatc catccagtct gcgcttttga ctgtgtgcaa gtatcagtaa taatgctttt 300
ggggggctca gatgaacagc gaacacccaa tcagccaggg gctctgggaa gggaaagctc 360
ccaaaaatga ggaagtcctt tccaacaccc atttttccca ttactgttct cac 413
```

<210> 520

<211> 319

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. R10896

<400> 520

```
ttaagccatc caagtaaaaa aaaaaatttt aatttaacaa tgaaaaagga acttcaaagg 60
gtttatgcc aaaaacaaac cagtcctctg cagcctaact catttgtttt tgggctgcga 120
ccattgtaga gggcgatcag gcagtagatg gtccctccca cagtcagcgc catgggtggc 180
cggtaaagca tttggtcagg caggcctcgt ttcaggtaga cgggcacacc atcagctttc 240
tggaaaaaact tttgtagctc tggaactttg tttttcccag cataatcata ccctgtggga 300
atcggaggtc agtttagtt 319
```

<210> 521

<211> 318

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. R11526

<220>

<221> unsure

<222> (1)..(318)

<223> n = a or c or g or t

<400> 521

```
tttantagcg cgaccatttc tttattaaat tatacaaaan ggnnggggag gggggcagct 60
gtggggctcg gcaanaccen ggccccaccc cggcctggcg ctgtctgaga agaggggatc 120
tgagggatag ccagggatca ggcaggatag ggatggggca ggacatgagg ctgggggatg 180
cagaggttag gtgggagagg ctaccngaga aggaatgagg ctggtagggg agggagaaag 240
agagcaaaga gagagaggag caattggggg ccagctggag agctcagatg gagcaggtca 300
ggaggtggaa caatggca 318
```

<210> 522

<211> 362

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. R15108

```
<220>  
<221> unsure  
<222> (1)..(362)  
<223> n = a or c or g or t
```

<400>	522					
tttttttttt	tttttttttt	tttaacggta	gaaccaangt	ttattaatga	cagcctttat	60
tacaatcact	ctcaagtgt	aaaaataaag	ggtgattaat	taatatTTTaa	aactcactcg	120
gacttgctgt	ttggcctttc	agtggatgtg	ccaaagggaa	gggatcttgc	ctgattctga	180
atcaattggc	cagatggagt	tactggaga	atgaggcaat	caacaaaaaa	gacaaatgat	240
gccaactgga	gagagctcgt	gtcttctcca	tgttggaaag	acattacaaa	atggcaactn	300
tgggtggggg	cagagatgaa	gtaagacaac	cttacagtcg	gagtaagatg	tgaataccct	360
tt						362

<220>  
<223> Genbank Accession No. R16983

<400>	523						
ttgcagagac	aagtgaacat	ttatTTTTgt	acctttcttc	ctatgtgtat	ttcaagtctt	60	
tttcaaaaca	aggcctgagg	aatctccaga	ttcaattatg	tccctgggct	ttgtcgacag	120	
ctgcaggagt	cttagggagc	cttgtacaaa	tgctagagtt	actcatttac	caacattaaa	180	
cccgagaata	gaagatgcaa	caaagcaggt	ttcttctctc	catgggaaag	tgctgatttc	240	
agacaagggc	agcagccaat	gtaggaaaat	gctgggaatt	tttcttggg	aactgggact	300	
gtggatgaga	gggtgctttg	cccatggaac	cataaggcta	ctgtcttttc	ttttggnccc	360	
ttccctttcc	caggtttttg	gaaggnataa	aggccgggaa	ataaatcttt	ctctgg	416	

<220>  
<223> Genbank Accession No. R25410

```
<210> 525
<211> 419
<212> DNA
<213> Homo sapiens
```

<223> Genbank Accession No. R28370

<220>

<221> unsure

<222> (1) .. (419)

<223> n = a or c or g or t

<400> 525

```

anatggatat tagttcttta ttgagaatca gaaatatattt aaattttacta aattcagagg 60
tagtcatggc ctctcccca taaactttac agtcttagac aatttgtgca ttttaataaa 120
ttcttagtta tagtattaaa gaaagtggct gggcgcgggg gctcacgcct ggtaatccca 180
ggcacttttg gaggtccagg gcagaggcag ggcagatcat gaggtcagga gatcgagacc 240
atcctgggct aacacgggtga aaccccgctct ctactacaaa cacaaaaaaa ttaggccggg 300
cgtgggagac agggcaccgg taggtcccggt gtacttcggg gagggctgag gacagggagg 360
aattgctttg aacccgggga ggccaagggt ncagttnagg cccgagattc acgggnact 419

```

<210> 526

<211> 431

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. R31679

<220>

<221> unsure

<222> (1) .. (431)

<223> n = a or c or g or t

<400> 526

```

acttccaaga tnaacatttt tctgtttatt cttagaatgt gaattttttt tttcaactca 60
gggccaagta caaacttttg atttttgaaa ttttttcaac tcagggccaa gtacaatctt 120
ttgatttaaa aatttttttt catgaacaaa ccatcagtag ttattaagga gccaagaaa 180
taggagatgt gaaagcagga tttctttgtg tttcctttga atgttggtat tttgagtatt 240
atcattatca gggtaggagg gaaggaaagg gtagggctgg ggaaggtagg gtccttatgg 300
atatcttgac tatgggatcc ccaggattta catttcacct ggtcacagng gcacacataa 360
tttaggataa acatgttcaa ggaatggaca taaacagagg ggtaaacaca ggggggcttt 420
acatttgggg g 431

```

<210> 527

<211> 247

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. R33627

<220>

<221> unsure

<222> (1) .. (247)

<223> n = a or c or g or t

<400> 527

```

aaaaaaaact tttgaatcat ttattctttg gttgtctaca nagacactta agtactgtat 60
cgctgtcatg cagcggcctg tggaggccct ggggggtggct gggcctgtgt cctgagccct 120
cagccagatc caggggggtgc ggtgtctggt catgtccact ccaagagcag tagcaccatg 180

```

tagaaggctg tgagcagggt cccctcggct gagtggcaga tgtaggctca ctgctntgca 240  
gccccaa 247

<210> 528  
<211> 282  
<212> DNA  
<213> Homo sapiens

<220>  
<223> Genbank Accession No. R36881

<220>  
<221> unsure  
<222> (1) .. (282)  
<223> n = a or c or g or t

<400> 528  
tttttttttt ngtgattata cgttttatta gactcnggga ggggtaatgg caaggnccttc 60  
atcangtggt ccttcaaatt aaaaaaaaaa aatacaaaaag ctacgtagaa aacgtcagat 120  
cagacgacta aactttcccg actcagggcc aagttcttct tgagcctgcg ctctcgggac 180  
gctgcgagt cggctctccga gtacgggggc ggcgcgggcg ggtagtaggc ctcttcctcc 240  
tcctccttgt ggggtctcct cctctcctcc gacccttct tc 282

<210> 529  
<211> 428  
<212> DNA  
<213> Homo sapiens

<220>  
<223> Genbank Accession No. R36969

<220>  
<221> unsure  
<222> (1) .. (428)  
<223> n = a or c or g or t

<400> 529  
tttttttttt ttcaagttgc tttttccctt tttattaaaa atagactcaa gcactttant 60  
gtatcatata aaagtttcat tcgctggtgg cagccacggg aaagactggc cccgtagcac 120  
tgattttcca cctcccctcc agggacttgg gtcccaggag cagtgactgg gcctcagaga 180  
aagcccataa agactgctta ctctggaagc agccgactag gggctnttcc gcgagcagct 240  
ntccccaccc cacccaatgg caaaagttag atactcgaaa gtgcctcttc agtgccaaga 300  
taaactaaca agtgggagtg aaatgggaaa accctttgat tattttacta ttttcccagg 360  
ggcctggggg ntttttagtt tttccctgca attcaaagtc cttttttccc ttacaatagg 420  
ggggtagg 428

<210> 530  
<211> 507  
<212> DNA  
<213> Homo sapiens

<220>  
<223> Genbank Accession No. R37588

<220>  
<221> unsure



<222> (1)..(507)

<223> n = a or c or g or t

<400> 530

```
ttttttttta gaattcaggt agtggttttg tttattatct tagtggtgtc acaagtgata 60
gaaacccccca ngaagtngga angaaagagc tcentgcntg gacctacatt ttgccattcc 120
cctcttgccc tgggntcaga accttgaagc ctttgcttg cccttgcatg ttaggatatg 180
gccaagaatc agaaactgat gcgtttttcc agcactacct gtgtgctgca ctcattggaag 240
gtgggaagct atacacaggt atccaacttg gttataagac accagttccc acagggctgg 300
atttctcagc tgtctgggta aaccagtggc acttcactgc cccaggggtg gctggctccc 360
tttctgaatt tctgtctcaa tgtgatataa ttgccaccat tcaggatggc taccacatt 420
ttggtatgaa caccatgact tctttaaggc aacggggggt ttcctnctca gaacagtgcc 480
cctgnaattt ttcctcctgt gggctttt                                     507
```

<210> 531

<211> 239

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. R37774

<220>

<221> unsure

<222> (1)..(239)

<223> n = a or c or g or t

<400> 531

```
ttttttttta tgtatttcca aaatcacaaa atgcacaaca ttcattngttt ttaatatgtc 60
aacatggaat attatatata gattaaaacc acgacagcaa aaacactcac acggtaccag 120
tttcatatca aaacaaaaca cacaagtgt ttttcaatat taaaacgact gtgataaaaa 180
catattaata ttttgaacca tgtttacaat agngcaaaat tcatatttta cttaaataac 239
```

<210> 532

<211> 237

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. R38678

<220>

<221> unsure

<222> (1)..(237)

<223> n = a or c or g or t

<400> 532

```
tttttttttt tttttttttt ttttttcng ttggaaattt tttatttacc actgcaaggt 60
ttttgctcca aagtgtcaca ccagacatat gactacaatg tctcatgcat ctttttgtgc 120
tttagttcat gactgcaaaa cacacactta gcatttgaca acaggaaaca cagagggcag 180
aaacaaatca caaggactag ttgggttagg ttacagccac attttccccg gggctcc 237
```

<210> 533

<211> 401

<212> DNA

<213> Homo sapiens

<220>  
<223> Genbank Accession No. R38709

<220>  
<221> unsure  
<222> (1)..(401)  
<223> n = a or c or g or t

<400> 533  
tttttttttt tttttttgat ttctcaacat caaagtttaa ttattacaaa atagttcaag 60  
caacatgata tgantttcaa aaactgtatg ttgcttngct tcctngtttt gctccaacac 120  
taatcatgct gaggtttttg aagcacagct atgactaggg caggcactct tgatttcagt 180  
cacaaaaaacc cttcttgat gaacaatact tgttcttttc agaagaaaag caattttacc 240  
ttttctattt ctattatgaa aaacagagct aaacaatttt tgtattttta gtagagacag 300  
ggncaccacca cgctggccac gntgggtctc ganctccttt caagntgttc tgcctgcccc 360  
ggcctnccaa agtgccgggg nctacaggat ntgaggnac c 401

<210> 534  
<211> 340  
<212> DNA  
<213> Homo sapiens

<220>  
<223> Genbank Accession No. R39467

<220>  
<221> unsure  
<222> (1)..(340)  
<223> n = a or c or g or t

<400> 534  
gagccacctc ggggtgactg agcggaggc caggcagggc ttccctcctc ttccctcctc 60  
ccttcctcgg gaggtcctcc agaccctggc atgggatggg ctgggatctt ctctgtgaat 120  
ccacccttgg ctacccccac cctgggctac cccaacggca tccaaggcc aggtgggcc 180  
ttagctgagg gaaggtaga gctccctgct ggagcctggg gacccatggg cacaggccag 240  
ggcagcccg agctngngtg ggggcnttag tngggggttg ntgcttgacc cccagcacia 300  
taaaaatgaa acgttgaaaa aaaaaaaaaa aaaaaaattt 340

<210> 535  
<211> 197  
<212> DNA  
<213> Homo sapiens

<220>  
<223> Genbank Accession No. R40431

<400> 535  
tttttttttt tttttttgtc ttgtgtgtat ttttatttca gggaaagaaa tgagggatat 60  
gataagaaaa agtctattaa aattgtaagg ctactccag acaccattgc ttaaataact 120  
cccctcgac acagagagaa aaccctggg caagtgcaca aaaacactac tcataaaagc 180  
acgggtgacc agtgaac 197

<210> 536  
<211> 464  
<212> DNA  
<213> Homo sapiens

<220>  
<223> Genbank Accession No. R42241

<220>  
<221> unsure  
<222> (1) .. (464)  
<223> n = a or c or g or t

<400> 536  
tttttttttt ttttgaaaac agaattattt attgcataca gcatgggact gtgatcaacc 60  
tggncatcaa atgccgcgat ggctgacagg gccaggcgg cgggagtgtt gggaagccca 120  
gtacacgtgc tccctctctg tgggactccg ggatccacgg ggcggatggt tctntgagtt 180  
gcgagtgttt cctgtttgtc ttccagcccc cagtccctcc cggccactct gattagccag 240  
cctagggtag ggcttggcat aaagtccacac aggcacaccc cagaagaagg aaaaagggca 300  
cctgcatgaa caaagagttg ggttgcagag gntgcaccgg ggtaagactt ccttcatgca 360  
gttnggagtc cncatgtn gggacatcag gagatgncac cncacagaat tggtnctag 420  
gttttntctg gttttggccc agagaggctn attcccattt tttt 464

<210> 537  
<211> 318  
<212> DNA  
<213> Homo sapiens

<220>  
<223> Genbank Accession No. R42424

<400> 537  
tttttttttt actttctgtg agcttatgag gccattctgc acattatcaa aatgaaatca 60  
ttatgcagta acctatata tataaatcca attttttcct ttgtagaaga aaacaaaaat 120  
aattttacia actacattta acttagtaat ataaagaact gactagtgtt aaattttgaa 180  
aatctaccac ttatttttga agggaaagggt acacatcctt caaaaccccg gctaacaatt 240  
cctaggttca gttttctatt atacaaatca aaagggttaa ttccttgtgg gcactaacca 300  
aaactttaaa aattaacg 318

<210> 538  
<211> 243  
<212> DNA  
<213> Homo sapiens

<220>  
<223> Genbank Accession No. R42607

<220>  
<221> unsure  
<222> (1) .. (243)  
<223> n = a or c or g or t

<400> 538  
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gttttctttg ctttctggag ctaaattgggg tatcgatgag gcagcagtca cgggagaccc 120  
aacatgctct tggcagatac tggattatcc aactatcaa aatggagctg tagaagaggc 180  
atgttnaact ggttaaaaca gaaagggtat tttagtagcg tcaagttgat ctaagtacag 240  
agg 243

<210> 539  
<211> 270

<212> DNA  
<213> Homo sapiens

<220>  
<223> Genbank Accession No. R44397

<220>  
<221> unsure  
<222> (1)..(270)  
<223> n = a or c or g or t

<400> 539  
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tttacattgt tgagcaaagg agtgacgaga tcagtcttgc tttttagaaa gattagtttg 120  
gcagttactt atttgtaacc aganttagac agcaaatacg gatgcagggg gagaagtcag 180  
gtgactatta gtctgcgagt aattctggga caagagcagt ggtaatggaa ttnaaaggga 240  
ttaaagtntt taccaggttt tggcataaat 270

<210> 540  
<211> 367  
<212> DNA  
<213> Homo sapiens

<220>  
<223> Genbank Accession No. R44535

<220>  
<221> unsure  
<222> (1)..(367)  
<223> n = a or c or g or t

<400> 540  
tttnttccaa aaatcaccac ctttaatact ccccggtcct gcacacaccc acagtctcac 60  
tggtgctccac cctcacttac tgcccgcgtt ggatggcctt ggaggctgcc tgcccgcgcc 120  
aggatgtttg gcacaaagag cagccccgaa gccnctnaa tgntctcgat gggcaccagg 180  
taagcgnctc agtgggatgg cctnatccac aggtgcgttg ggcacacgt aggtgcggan 240  
tncaatttgc ccnctgntn cctccaggtt cagcaccttg aagaagtttg tgggcactgc 300  
cangtggttt ttgccgatga cctgggtant ttacgttaga tttcccatca gntctgtgcc 360  
atgggac 367

<210> 541  
<211> 398  
<212> DNA  
<213> Homo sapiens

<220>  
<223> Genbank Accession No. R44714

<220>  
<221> unsure  
<222> (1)..(398)  
<223> n = a or c or g or t

<400> 541  
tttttttttt tttttttttt tttttgattt tnagcaggna cagttttgat tttattgcaa 60  
ggcacacaat cgtatatata atgcataatt atcatctttt aaagtacaag ataaaaatca 120



tttttttttt tttttttttt tttttttttt ttattgccaa ganccaaaga aaaaatttta 60  
 ttacaatag agaattttat ttgaaacatg catttcttgt ttttttaaaa acaaatcagc 120  
 aaatgcagat caagttttaca ctccttaagg caagagtcct tatgcacgct gtacatgttc 180  
 atattaaatc caaaagctgc tcacccgggg aacttggtgta caaagggcaa ggccaaggtc 240  
 agcaatgtgt cttt 254

<210> 545  
 <211> 338  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <223> Genbank Accession No. R49138

<220>  
 <221> unsure  
 <222> (1) .. (338)  
 <223> n = a or c or g or t

<400> 545  
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 gggctcctgc cccagagga ttgacaggtg gatgccgggt ggggagggct gcagggtctg 120  
 ctctggcct ctntcctggc ttcattggtcc tgacancctc gggccancct cagggtctgg 180  
 agcgtactnt agcaccancc tttcaaagtc gttctccttg gcctgggtact ccttgatgaa 240  
 gggatgggac ctgtgggcat ccttcagctg ggacaggtat cggtttgtca cctcaggggg 300  
 nttgccaggc tgctnggaca ggacgatgag gttnacca 338

<210> 546  
 <211> 284  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <223> Genbank Accession No. R49327

<400> 546  
 tttttttttt tttggaaaaa gaaatttttt tttaattaga aaccaagttt acatacggtt 60  
 aaatgggttac taaaagctca gttgtaacca ctctaacac cactagcaga acctcaagg 120  
 agccaagagc tcttcccttt tcccctgtta atttcagta taatgtagca gcacaattat 180  
 ttcattgtcac atttaagaag aacaagaacc aatttatata aaggtacaat tgttatatcct 240  
 taaacattcc acataaacac actgtcaaaa ctactggat atgc 284

<210> 547  
 <211> 414  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <223> Genbank Accession No. R51831

<220>  
 <221> unsure  
 <222> (1) .. (414)  
 <223> n = a or c or g or t

<400> 547

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tttttttttt ccatttttaa ttatttttatt gtatatttaa aaaccaaata aagcaataac 60
tttaaagacc tcacacacac acagtataaa cacctgggta aggttttntt cgtgtccatg 120
ttgacaccgg aactaccggt aaagtgcaag ttttgttttg tgttcctttg tgcagtttca 180
ctcacatgta aacaagtcac ttggctatga tttgaccac gccccccgn ttagtttcgg 240
gagggcagag gctctaccgg ctgtcacagc aaccggant cacagncaag ntaatgcccc 300
gtgggtcctg accctgcaag cggggcatga cggtttcttg angcctagca gaggntgggt 360
aactttcaca tncctcccc accccgtggt tcactnttag gtttttgaga agtt 414

```

<210> 548

<211> 538

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. R56183

<220>

<221> unsure

<222> (1) .. (538)

<223> n = a or c or g or t

<400> 548

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gtaagatggc ggggtacgac ttaactactc gcatcacgca ccttttggat cggcatctag 60
tctttccgct ccttgagttt ctctctgtaa aggagatata taaagaaaag gaattattac 120
aaggtaaatt ggaccttctt agtgatgcca acatggtaga ctttgctatg gatgcataca 180
aaaaccttta ttctgatgat attcctcatg ctttgaaaaa gaatagaacc acagttggtg 240
cacaactgaa acagcttcag gcagaaacag aactaattgt gaaaatgttt gaagatccag 300
aaacgacaag gcaaagtcgg tcaaccaggg atggtaggat gctctttgac tacctgggcg 360
gacaagcatg gttttaggca ggagtattta gatacattct acacatatgc aaaattccca 420
gtattgaatg tggggaatta cttcaggagc agccagaatn tctttatttt tttcagagtg 480
ttggttcccg caaccgacag anatgctgta agttcactct gggggaagct ggcctctg 538

```

<210> 549

<211> 364

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. R56602

<400> 549

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tttttttttg ctgttatgat tagatattta ttgagcacca ggagagagtc agaacattag 60
acttatagtg gaggagcaga actgaacctt ggcctgtgaa ataacaattt caattaaaag 120
ctgtctggcc ctgaagaaaag agaaatgatc ctggatatag ctggtcctct gagctggcag 180
agctgagcct ccctcgggtc ttctgggtgg caagatgcca aagttgaata gtgtctgtag 240
ggcatgatga ccaagtccta gtgctatggg catcttcctt ctggtattta ggagaggagt 300
accagaagcc cccggcagag gatactagga agggcccaga gccaaatcca gcagctgggc 360
ttac 364

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<210> 550

<211> 181

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. R58878

<220>  
 <221> unsure  
 <222> (1)..(181)  
 <223> n = a or c or g or t

<400> 550  
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 ctattttggc tttatcttcc agaaacttag aaccaaatat gcagtcctct tctagcaact 120  
 gtatgagagc aggtggtaag cttctatttn attgcccttg tttcccttg actccaaatc 180  
 t 181

<210> 551  
 <211> 485  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <223> Genbank Accession No. R59593

<220>  
 <221> unsure  
 <222> (1)..(485)  
 <223> n = a or c or g or t

<400> 551  
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 agggcatg catgccacag ggggccacat gaaactctgt cacaagcaga gaccacaaag 120  
 cagagagagg acctgagact atgcctttat tgctaagtca gtgggatgga tctaggtggg 180  
 gatgtcccct gtttgggcat aaagcaaaaa cagacattct atggttgtca ctgggaagtc 240  
 tgtgatatga gttttgtgca cccacgagag agggcttaaa aggatgatgt aaacaacttt 300  
 agccttttagt ttgtccctgt acttaatat tgtcaaatag ggcaaacaca aattctaagg 360  
 taaacacaga ttagttccgg gaggagcttg gcttatggca cacnttcagg gaaacacctt 420  
 ggcttaaatc ttacagggga ccacctgttt ttttcaaact ttgggggttat tccgtttctg 480  
 acttt 485

<210> 552  
 <211> 372  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <223> Genbank Accession No. R60056

<220>  
 <221> unsure  
 <222> (1)..(363)  
 <223> n = a or c or g or t

<400> 552  
 tttttttttt ttttataaaa ggaaacagac caacatcata gtgtttttatt gacaaaacca 60  
 taggaaaagg cagtttttagg atgtaaagta aaaatgggtc tctgaaatat ctacacaaac 120  
 gtgaattctg aaaagttttc attaaaatcg tatttcatac aattataaac taatgaggaa 180  
 caaaacaatt ttcaacttct ccataaccga gactgagctt gatttatgct tgccatacag 240  
 aagcagganc tcttcccaga gaggggtggtg gctccacac agctgacagc cagggttggc 300  
 tgtttaccta agcccatct tcccagtcgg tgttcaaaaac aagggcaciaa ggtctgggct 360  
 tttcaaaaaa aa 372



<210> 553  
 <211> 387  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <223> Genbank Accession No. R60777

<220>  
 <221> unsure  
 <222> (1)..(387)  
 <223> n = a or c or g or t

<400> 553  
 tttttttttt ttttttttatt taaatggaaa cactaatctt tatttttcac atgctgaagt 60  
 gtgtgggttac aattttccaat aaaacactat atataataag caaaataagt tagtacattg 120  
 taaacttatg cacagtttca tcaattaaca gtttaaganc aaacaagcca ttttaagactt 180  
 tggagctaca tttagtaaaa nattgcaaac actcaaactt tatcaacccc aagtaagaca 240  
 gtaaagagct attcaagact tcttcaaacc aattacacaa ntacatgttt atttttgggtt 300  
 acagtcccct ggctatgcac aaggaccatt ggggaatgctg ggancaattt acacatttta 360  
 aaaacgggca aaaaggcaaa gcaaggg 387

<210> 554  
 <211> 350  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <223> Genbank Accession No. R69417

<220>  
 <221> unsure  
 <222> (1)..(350)  
 <223> n = a or c or g or t

<400> 554  
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 agggcagttg tgtgttgggg tggttttttt ctctattttt ttgtttgttt cttgtttttt 120  
 aataatgttt acaatctgcc tcaatcactc tgtcttttat aaagattcca cctccagtcc 180  
 tctctctccc cccctactca ggcccttgag gctaattagg agatgcttga agaactcaac 240  
 aaaatcccaa tccaagtcaa actttgcaca tatttatatt tatattcaga aaagaaacat 300  
 ttcagtaatt tataaataaa ggggcactat tttttaatga aaanaatttg 350

<210> 555  
 <211> 284  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <223> Genbank Accession No. R71395

<220>  
 <221> unsure  
 <222> (1)..(284)  
 <223> n = a or c or g or t



<213> Homo sapiens

<220>

<223> Genbank Accession No. R85291

<220>

<221> unsure

<222> (1)..(412)

<223> n = a or c or g or t

<400> 558

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ttgntatttta cangtatttta aatgtgaata ttcactacct atttggtgca ngcctgcant 60
ttttatactg ggcttgccaa aaaccggaac agctttctac tttgacaatg tatcagaatt 120
taaatacagca atatgttaat aagccaagca aagggttatat atgcaaataa aactgttggtc 180
tataacctcc tggttacctg gggcacagca aaagtcattg ngtagtcgca tgtgaacctg 240
tccctttcat aggtgtctca ttgccgggga acatcagggg atagccattt ggggaaggggt 300
catcagccct cccancatcc gttttctgtc ttgtcttttc cctatgaggc aggggggnaat 360
tcncggtgg ggccccaatc cccagtgcag gnggctcagc cnttggcctt tg 412

```

<210> 559

<211> 380

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. R88209

<220>

<221> unsure

<222> (1)..(380)

<223> n = a or c or g or t

<400> 559

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acatcagtca gaaaattcca gaaaatggaa agtactccat catacagcaa agtaaatcaa 60
tggttggttg aagagcagag agaaaaactt tataaaggct ccaagtaaat acaaagggtga 120
tagattagat aaattcatta tggngactct gatgatggtt tcacgggatt ataataaaat 180
tcaagactta tctacagct caaatatgtg tactttattg gatgtcattt atatctttat 240
tttattttta agatgggggc tactctatc acccgggctg gactgcagcg ttgcaatcct 300
aggctcactg caacctccgn ctcccgggnt caagcaatcc tcccacatca ctaagggncca 360
gggtacatgc cncctnccg

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<210> 560

<211> 379

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. R89840

<220>

<221> unsure

<222> (1)..(379)

<223> n = a or c or g or t

<400> 560

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ttaaatttta ttatagtaac aaagtgacta tttttaataa taaaagcaga gtgctgtag 60

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<220>  
 <221> unsure  
 <222> (1)..(334)  
 <223> n = a or c or g or t

<400> 563  
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 cattttctcc tcaggaaggc ggtctgaaat ggagtgggct gtgtttggca agggttgtag 120  
 tggtttgaa tctctcacct gcttggtcc cgagctgggc ctcaggctgn tctccccaga 180  
 gtaaatgccc gggatcattg aggaagcgtt ggctgcgctg ggcatgttag ggcaggtctg 240  
 tacgggtccag cgctgtcccc tgcagcgtct ctgggcgctg ggggtgcaggt naggcccngg 300  
 acgaggagggg aagagcagcc tcgacagaga gtcc 334

<210> 564  
 <211> 510  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <223> Genbank Accession No. R98442

<220>  
 <221> unsure  
 <222> (1)..(510)  
 <223> n = a or c or g or t

<400> 564  
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 ttcaggatga ctgggaggct tcttaggcta acttttgcct ttgaaaatgg aaaaaataaa 120  
 ttacttgata tttgtgataa gactaagatt tcttaaaagt ctgcacatca atatattacc 180  
 tgggcttagg aggggtgagg cacagtatcc atctgcaccc tctcctcgta ttttttaaaa 240  
 acaggcaaaa tatgtaagaa aaggctgggtg cacgttgga gacagagcgt gcctgtctat 300  
 gccagtgtct ctgtgccctg cagcctgggn aggatgggag tcggatgctg gggcctcatg 360  
 nccacttagg gccataaaca tactcaagac tctacagccc tttcaccagc aaagtatgnc 420  
 ctgaggggaa ccaactgggtg ttgggagttg aaggcacaca aagcaggggc taaagggcaa 480  
 ttgggggtttc acggtgcagg cgccttgagg 510

<210> 565  
 <211> 386  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <223> Genbank Accession No. R99092

<220>  
 <221> unsure  
 <222> (1)..(386)  
 <223> n = a or c or g or t

<400> 565  
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 gccacacttg gcctcccaa gtccctaggat tacaggcctg agctactgcg cccaacccat 120  
 ttattttatn ctgttttagt tgcatttgct ttaggagtct tagccatgaa ttctttgcct 180  
 aggccaatgt ccagaggagt ttctcctagg ttatattcta gaatttttat ggtttcagg 240  
 cttagggtta agtcttttat ccatcttgag tttatttttg tgtaaagtga gagacaggg 300

ttcagtttca ttcttctaca tgtggctatc cagttttccc agcaccattt attaaatagg 360  
 ggtgtccttg cctcaattta tggttt 386

<210> 566

<211> 691

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. S45630

<400> 566

gacccctcac actcacctag ccaccatgga catcgccatc caccacccct ggatccgccg 60  
 ccccttcttt cctttccact ccccccagcgc cctctttgac cagttcttcg gagagcacct 120  
 gttggagtct gatcttttcc cgacgtctac ttccctgagt cccttctacc ttcggccacc 180  
 ctccctcctg cgggcaccca gctggtttga cactggactc tcagagatgc gcctggagaa 240  
 ggacaggttc tctgtcaacc tggatgtgaa gcacttctcc ccagaggaac tcaaagttaa 300  
 ggtgttggga gatgtgattg aggtgcatgg aaaacatgaa gagcgccagg atgaacatgg 360  
 ttcatctcc agggagtcc acaggaaata ccgcatcca gctgatgtag accctctcac 420  
 cattacttca tccctgtcat ctgatgggt cctcactgtg aatggaccaa ggaaacaggt 480  
 ctctggccct gagcgaccca ttcccatcac ccgtgaagag aagcctgctg tcaccgcagc 540  
 cccaagaaa tagatgccct ttcttgaatt gcatttttta aaacaagaaa gtttcccac 600  
 cagtgaatga aagtcttggt actagtgtg aagcttatta atgctaaggg caggcccaa 660  
 ttatcaagct aataaaatat cattcagcaa c 691

<210> 567

<211> 1398

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. S59049

<400> 567

tagatggcaa cctccctatc tgcccgcagg tcatagaggc gacacgtagc gtcattctgac 60  
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 ctaacccaaa ggaattgaaa ggaaccactc attcacttct agacgacaaa atgcaaaaaa 180  
 ggaggccaaa gacttttgga atggatatga aagcatacct gagatctatg atcccacatc 240  
 tggaatctgg aatgaaatct tccaagtcca aggatgtact ttctgctgct gaagtaatgc 300  
 aatggtctca atctctggaa aaacttcttg ccaaccaaac tggcctaaaat gtcttttgaa 360  
 gtttcctaaa gtctgaattc agtgaggaga atattgagtt ctggctggct tgtgaagact 420  
 ataagaaaac agagtctgat cttttgccct gtaaagcaga agagatatat aaagcatttg 480  
 tgcattcaga tgctgctaaa caaatcaata ttgacttccg cactcgagaa tctacagcca 540  
 agaagattaa agcaccaacc cccacgtgtt ttgatgaagc acaaaaagtc atatatactc 600  
 ttatggaaaa ggactcttat cccaggttcc tcaaatcaga tatttactta aatcttctaa 660  
 atgacctgca ggctaatagc cttaaagtac tggctccctg ctgaaggga ttaacagata 720  
 gtatcaaggc acgaaggaat gtgccagtat ggctccctg gtgaacagct tggccttttt 780  
 tgggtgtctt gacaggccaa gaagaacaaa tgactcagaa tggattaaca tgaaagttaa 840  
 ccaggcgag agttgaagaa gcataagcaa gacaaaaaca gagagaccgc agaaggagga 900  
 agatactgtg gtactgtcat aaaaaacagt ggagctctgt attagaaagc ccctcagaac 960  
 tgggaaggcc aggttaactc agttacacag aaactgtgac taaagtctat gaaactgatt 1020  
 acaacaggct gtaagaatca aagtcaactg acatctatgc tacatattat tatatagttt 1080  
 gtactgagct attgaagtcc cattaactta aagtatatgt tttcaaattg ccattgtctac 1140  
 tattgcttgt cgggtgtattt tattttattg tttttgactt tggaagagat gaactgtgta 1200  
 tttaacttaa gctattgtct ttaaaaccag ggatcagaat atatttgtaa gttaaactcat 1260  
 tgggtgcta aataaatgtg gattttgtat taaaatatat agaagcaatt tctgtttaca 1320

tgtccttgct acttttataaa acttgcatth attcctcaga ttttataaat aaataaataa 1380  
 ttcattttaaa aaaaaaaaa 1398

<210> 568  
 <211> 1223  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <223> Genbank Accession No. S81914

<400> 568  
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 caggccccga ccccgcccc ctccaccatc ccgggacccc ggccggggctc cggtcctgag 120  
 atcttcacct tcgacctct cccggagccc gcagcggccc ctgccgggag ccccgaggc 180  
 tctcgcgggc accgaaagcg cagccgcagg gttctctacc ctcgagtggc cggcgccag 240  
 ctgccagtcg aggaaccgaa cccagccaaa aggtctctct tctgctgct caccatcgtc 300  
 ttctgccaga tcctgatggc tgaagagggt gtgcggggcg cctgcctcc agaggacgcc 360  
 cctaacgccc catccctggc gccacccct gtgtccccc tctcgagcc cttaaatctg 420  
 acttcggagc cctcggacta cgtcttgac ctccagact tctccagca acaccggcc 480  
 gccttctaac tgtgactccc cgcactcccc aaaaagaatc cgaataacca caaagaaaca 540  
 ccaggcgtag ctggtgcgcg agagcgtatc cccaactggg acttccgagg caacttgaac 600  
 tcagaacact acagcggaga cgcaccccg tgcttgaggc gggaccgagg cgcacagaga 660  
 ccgaggcgca tagagaccga gcacagccca gctgggctag gcccggtggg aaggagagcg 720  
 tcgttaattt atttcttatt gtccttaatt aatatttata tgtatttatg tacgtcctcc 780  
 taggtgatga gatgtgtacg taatatttat ttaacttat gcaagggtgt gagatgttcc 840  
 ccctgctgta aatgcaggtc tcttggtatt tattgagctt tgtgggactg gtggaagcag 900  
 gacacctgga actgcggcaa agtaggagaa gaaatgggga ggactcgggt gggggaggac 960  
 gtcccggctg ggatgaagtc tgggtggggg tcgtaagttt aggaggtgac tgcactctcc 1020  
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 ccgtgagatc cttccatctt cttgaagtcg ctttagggg ggctgcgagg tagagggttg 1140  
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 aataaaattg atttactgtc tgc 1223

<210> 569  
 <211> 290  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <223> Genbank Accession No. T03229

<400> 569  
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 ttggggaagt tctcctggat aatattctgc agagtgtttt ccagctcggg tccattctgc 120  
 ccatcacttt caggtaacac aatcagacgt agatttggtc ttctctcata gtcccatatt 180  
 tcttgagggc tttattcgtt tcttggtatc ctttttctct ctaaaacttt tctttctcac 240  
 ttcaatttca atttaatttc aaccttcaaa tcaactgata cccctttctt 290

<210> 570  
 <211> 253  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <223> Genbank Accession No. T03593

<220>  
 <221> unsure  
 <222> (1)..(253)  
 <223> n = a or c or g or t

<400> 570  
 cgngcaaaag tgtttatttt tctccttcag atatacantc tattggggnt tccgtgccac 60  
 tgaccaccat gtacaaggaa gggnttcaca ggcaaggggg acaggtgagg gcagccccc 120  
 cttcactcaa ggaacagggc aagggggccc agtacagaga acagaaatct cttacgacag 180  
 catcgtgccc tggcaganga ttctgcatan tcacctagaa atttcaattc taactgnttt 240  
 gatggaataa tag 253

<210> 571  
 <211> 71  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <223> Genbank Accession No. T10695

<400> 571  
 tttttttttc agctgggcta cagggtttatt ctggcactgg aggtgaaagg gggctggtgt 60  
 ggccagcacc g 71

<210> 572  
 <211> 255  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <223> Genbank Accession No. T15409

<220>  
 <221> unsure  
 <222> (1)..(255)  
 <223> n = a or c or g or t

<400> 572  
 ttttattgaa agttgaaaag tgaacagtta aataagtac accttaaaat tgtgtagcga 60  
 aatgacagaa aatatgcata taactactat acaggtgcta tgcagaaacc cctactggga 120  
 aatccatttn attngttcga actgcggatt tttnaacgta ttcaaccagc tgaattgaac 180  
 gatttcagtg nacacggatt tacttttagcg tattcagcag ctagatttca gcttccacan 240  
 ngtgcgtnac tgtgc 255

<210> 573  
 <211> 268  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <223> Genbank Accession No. T15423

<220>  
 <221> unsure  
 <222> (1)..(268)  
 <223> n = a or c or g or t



<400> 573  
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 aatccaaagc acttttgtgg agggacaacc cgttttagcaa ggccctgtta ctgaacagag 120  
 ggcagtgggg ggcacccag ggaccacagc acacagacta gtgttagaaa ccccttccca 180  
 gaagcaaccg gtgggacttg gcccttacca gccaggggtc tactccattg ggtcttgggg 240  
 cccaccaacc cctnttagag gnggnccc 268

<210> 574  
 <211> 246  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <223> Genbank Accession No. T15850

<220>  
 <221> unsure  
 <222> (1)..(246)  
 <223> n = a or c or g or t

<400> 574  
 aggaggggtg cgtttattag acaaacgctg ggagacaggc ctggtgggga cctggctggg 60  
 ggatgatgca gcccgcaatg gctgctgctt cgtacttggc ttgccccgga ccacagactc 120  
 gtaacggtaa cccctaactt ttcaggggccc tggnacccgc ccctgccagg gtccacacgc 180  
 agagttatgg cgggnccacc cccacaggtg cagctctatc tcccacctnt tgcacagaga 240  
 tataag 246

<210> 575  
 <211> 311  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <223> Genbank Accession No. T16282

<220>  
 <221> unsure  
 <222> (1)..(311)  
 <223> n = a or c or g or t

<400> 575  
 aagctcagag tgacttttaa tatgccaatc aatgttaata aaacacaagt caaagacaag 60  
 tgcaaacatg ttttagacca aaattaatga gaaaacagac aatttttttc aacatctgtt 120  
 agccagtatt attagtcaaa tggctaata cagataaaat atattttgtg aaaaacttgg 180  
 aatgtcagan gtcattcttg catttcaaac agctatgtac agtatcacga agatcggttt 240  
 atatacacia atattgaaga gaaaaaccgg gcaaacatt taaaaacaga ctaataatac 300  
 aatcaagtat a 311

<210> 576  
 <211> 250  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <223> Genbank Accession No. T17428

<220>  
 <221> unsure  
 <222> (1) .. (250)  
 <223> n = a or c or g or t  
  
 <400> 576  
 gctgtgcagt agtattttatt gttacagtgt taaaattcac tctcggggaa gcgatttggg 60  
 gccacggccc tagaaactgc atctttgttc agagccaacc catttcctct gcagccacaa 120  
 aatgcctttg tgtntcaggg ctctgggagat tctcctcgnt ggccagccat tggcaagaat 180  
 gccagactca gaggttgcca ttgcccacag gctttntnct cctttccttt cacagcagga 240  
 agagccctcc 250

<210> 577  
 <211> 309  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <223> Genbank Accession No. T23468

<400> 577  
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 tatacttctt taaatttagt attgacattt ttattttggg aaaggagggtc tttttttttt 120  
 ttaacatgga tacaggaaaa gaaaactctc caataaaaaat attgtctaaa aagtttggtt 180  
 tggtgtcatg atttactaaa tatgtacaat ttcaattcac agcgaaggta acaaagattt 240  
 aaacagccaa catcacaaat gtctcaagtt ctaaaaaaaa atcactgtgc acagtttaac 300  
 aatttaatt 309

<210> 578  
 <211> 299  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <223> Genbank Accession No. T23490

<220>  
 <221> unsure  
 <222> (1) .. (299)  
 <223> n = a or c or g or t

<400> 578  
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 ggagacaggt gtgctggagt ctggtcactt tggggcccgg cgtgggcaga gccactggg 120  
 ttacattct ctgtgggcag gtgtggacac cagagggctg gggcaggagg agcgtgggag 180  
 cgagcggncg acccccgtct ctggcccggc ccctgggtaa acgccgactc agatgcctga 240  
 aacagacctg ggccgagcaa ggaagggtga tggtatttcc acccagacag aaattcaaa 299

<210> 579  
 <211> 299  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <223> Genbank Accession No. T23622



gctctccacc acctcctctc catccttggg ccagcgcacc tntgcccagg gccggcatag 120  
 ctcacagggtc agcaccacac gctccaggcg cacggctgcc acatacacct tgccgctggg 180  
 atacacgatc cacgaggaga cgtctgt 207

<210> 583  
 <211> 308  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <223> Genbank Accession No. T33263

<220>  
 <221> unsure  
 <222> (1)..(308)  
 <223> n = a or c or g or t

<400> 583  
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 taatgtatgt nattagatac gacacagggc agagctgaac gttcctgttt tcttctggnt 120  
 cttgaagggtt ggtgagaggc cgctgaatga gacccagcct cgtgttttgt gggatgaaga 180  
 gatgcagaca aagtgactca ggtacactga tgctccctgg agggctggga ggtgggctca 240  
 gaggaagagg ccgaatccaa acctttttta ttgaaaagaa atagctcttg tttgtagcat 300  
 ttaaaaga 308

<210> 584  
 <211> 271  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <223> Genbank Accession No. T40895

<400> 584  
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 ccatcaatcc tttcattcat acgttaacac atatcactgg tttaatcat tgaaggcaaa 120  
 tacaagtttt tcccttactt tccctccaag attccactta ggctgggttac cccaaacgta 180  
 atggagaaac attaaatgtc actttttaa cactttttaa ccagtcttta attttcaatt 240  
 caggtgtgag gcacatatat acacacaaac a 271

<210> 585  
 <211> 343  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <223> Genbank Accession No. T40995

<400> 585  
 taatggtttaa ggaggaagggt ttattggctt caattcccca gttgatgttc aacactttat 60  
 ttagttctca tttggatttt aaacatttgc ttgacaaata atttcccatc aatttccatt 120  
 tctttggaaa gctcccacgt gtaatttatt ttaacatct ctgaagagca gaattaatga 180  
 tatttcttag ctgttgctcc agatcatgta gggtagagga ggctgaaaac tgctacaagg 240  
 gaaggcatct gtattgtttc aaaacgtcag gacggtacgg gatactcttt ccagagcgac 300  
 gaggtcaaa tcccttcatt tatttttttc aaaagggtaa aac 343

<210> 586  
<211> 351  
<212> DNA  
<213> Homo sapiens

<220>  
<223> Genbank Accession No. T49061

<220>  
<221> unsure  
<222> (1)..(351)  
<223> n = a or c or g or t

<400> 586  
ggaccaaaga actttatatt tatttttaaat atcaaagtaa cacaaagaac tagttcaata 60  
tacagtacac ttcctactct tcacagagaa ctgaaatddd ctataaagac atttatactt 120  
aggaaacatc agacaaccaa agtatgtata aaactcacaa gatattttac acacagttca 180  
caataattaa ttctgatatt ttaggnnttt tctgtcattg cttttaaaagc atccttaatt 240  
taaaaacaaa aattattatt tgaggactgg aaaacagggtg gcaaaggcat ttctactttt 300  
aattatacac tggtaaatcc ccccttaatc caaaacattt tacttncaca t 351

<210> 587  
<211> 423  
<212> DNA  
<213> Homo sapiens

<220>  
<223> Genbank Accession No. T49602

<220>  
<221> unsure  
<222> (1)..(423)  
<223> n = a or c or g or t

<400> 587  
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caagtgttag gccacagcac aaaccctctc gtccaatcac aaatgtccac aaatttgcaa 120  
agtaactgga cacgaacgat atgcttctca aactcacaca catattcgtc catcacacac 180  
acactcaaat gataaagaan tacattgaaa tcctctacaa aagagatctg aggacagtan 240  
tcagatgacc tcatgtgcgg acagcctntt gcagtttaca gtctaattcca tttggtcctc 300  
acantagccc tgtgaggata agcagcacag ggattactnt tcacaccgtt ttgcaggatg 360  
agggaaactg aggctcaggg gatgtgtaaa caccagccta aggttttcca gttgggagac 420  
tgg 423

<210> 588  
<211> 309  
<212> DNA  
<213> Homo sapiens

<220>  
<223> Genbank Accession No. T53590

<220>  
<221> unsure  
<222> (1)..(309)  
<223> n = a or c or g or t

<400> 588  
 ttnggtatgt ggttcagctn tttattntct ccatgggggtg ggtgaagagg agtggcccag 60  
 ctgagctgag gaaggtgacc actgagaacc cattcaacct gctgagcagc ttgggcagaa 120  
 aggagcagga cttgggacag acgactgaag atgcagagac cccatgggcc ccaccctgg 180  
 gccttcctcc catntggctg caggcatcct ntntnatcan tgctgggttg cttcctgggt 240  
 aaaggccan aaggtnaagg agatgggntt ttcangcatc agaatgaggt tnaatttggt 300  
 gccacatc 309

<210> 589  
 <211> 470  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <223> Genbank Accession No. T56281

<220>  
 <221> unsure  
 <222> (1)..(470)  
 <223> n = a or c or g or t

<400> 589  
 caggtnatn ttntttaatt atcactcaca tatttcacag gaaaaggant ntagcaaattg 60  
 ggtcaagggtg gtntaaaaaa aaaatccagg tttntacatg tctctctgtt tacatctggg 120  
 agaaaggtn tcctggcatc agtcgcagca gctgcacttc tctgacgcc ctttgcaaac 180  
 acagccctgg gcacacttgc tacagccac ggggaggcag gagcagcagc tnttnttgca 240  
 ggagggtgca tttgcncctt ttgcacttgc aggggaaccag cgcagggtgc agggagacac 300  
 cagcgggcgc agggagcagt tgggggggnc cattgcaagc ccgagggaga gactgggact 360  
 tttcccaagg agagaagcga aggaagccag tggggggcag ctctgtcccc anttccttca 420  
 gccccggggg gntcccccta gttctaggag cggnccccac cgggtgggat 470

<210> 590  
 <211> 439  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <223> Genbank Accession No. T62857

<220>  
 <221> unsure  
 <222> (1)..(439)  
 <223> n = a or c or g or t

<400> 590  
 caatctnaaa aaaatatttt cattatgttt attataaaaa tataaatggt tccactacaa 60  
 atcattttac attagtaaga ggccatctac attgtacaac ataaactgag taatattttg 120  
 aaaagacaag tttaaagtaa acacatattg ccaatcatat cacatttata catggcttga 180  
 ttgatattta gcacagcata aactgagtga gttaccagaa ataaataata tatgtaaatc 240  
 aaatttaaga tacaaaacag ntcatatggg tacataacat catgtaggga gttgtggcct 300  
 ttatgtttac tgaaagtcaa tgcagttccc tgtaccaaag ggatggccgt aggcattcta 360  
 ggtaccctct nctccctggg ttagggaatc cgtacactta tggtttacca tatggtccgg 420  
 gggtagggan ttgtggtaa 439

<210> 591  
 <211> 450

**Figure 6.** The effect of the number of iterations ( $n$ ) on the accuracy of the proposed algorithm. The results are shown for different values of  $\alpha$  and  $\beta$ . The x-axis represents the number of iterations ( $n$ ), ranging from 0 to 100. The y-axis represents the error, ranging from 0 to 0.010. The legend indicates four cases:  $(\alpha = 0.9, \beta = 0.8)$ ,  $(\alpha = 0.9, \beta = 0.7)$ ,  $(\alpha = 0.9, \beta = 0.6)$ , and  $(\alpha = 0.9, \beta = 0.5)$ .

```
<220>  
<221> unsure  
<222> (1)..(450)  
<223> n = a or c or g or t
```

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<210> 592
<211> 237
<212> DNA
<213> Homo sapiens
```

```
<220>  
<221> unsure  
<222> (1)..(237)  
<223> n = a o r c o r g o r t
```

```
<210> 593
<211> 301
<212> DNA
<213> Homo sapiens
```

```
<220>  
<221> unsure  
<222> (1) .. (301)  
<223> n = a or c or g or t
```

243

tcctcctatt tctccctccc caagtcactc tgaggggaag aacactgctg cctgctccct 180  
 gggcctgccg catacaaggt tagagccctg ggtctggggc atccttagcc tgaaatttgt 240  
 tgacatgggg caggagagca ggaggggaaca ttgagggttt tgactcttcg ggctctaaaa 300  
 g 301

<210> 594  
 <211> 290  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <223> Genbank Accession No. T64223

<220>  
 <221> unsure  
 <222> (1) .. (290)  
 <223> n = a or c or g or t

<400> 594  
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 acatgggtgaa aatctgtgag aaactgaagg ttttcatttg ttttctgtgc cccactgtat 120  
 atcacctttc aaaataatgc tttctgctgg gtccaaactt cacttggagc aaagaaaggt 180  
 agttaaaggg tttcacttaa agctacttcg ttatgggtgc tactgaaagt aaggtaaaag 240  
 caaacagcag taacatgggg actttaantg aggcaagaga agggattcag 290

<210> 595  
 <211> 445  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <223> Genbank Accession No. T67053

<220>  
 <221> unsure  
 <222> (1) .. (445)  
 <223> n = a or c or g or t

<400> 595  
 ttctgggtgt caatgaggat atttattggg gtttcatgag tgcagggaga agggctggat 60  
 gacttgggat ggggagagag acccctcccc tgggatccct gcagctccag ggtncctgg 120  
 gtnggggttag agttgggaac ctatgaacat tctntagggg ccactntctt ctccacgggtg 180  
 ctcccttcat gcgtgacctg gcancntag cttctgtggg acttccactg ctcgggcgctc 240  
 aggtcaggt agctgctggc cgcgtacttn ttgttgcctt gtttggaggg tttggtggctc 300  
 tccactcccn ccttnacggg gctgccatct gccttccagg gcactntcac agtcccggg 360  
 tagaagtcac tgatcagaca cactagtgtg gccttggttg cttggagctc ctacagaggan 420  
 ggcgggaaca gagttacagt gggga 445

<210> 596  
 <211> 444  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <223> Genbank Accession No. T67105



<220>  
 <221> unsure  
 <222> (1)..(444)  
 <223> n = a or c or g or t

<400> 596  
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 tttactaaaa gagtagatac aaagggtcagg aagtaattac aatgcaatgt gataagttta 120  
 ataatatagg tttgacagca tacagnnggag ggggtgattg ggtttnaggat gatgggtggga 180  
 tattggccag gtaatatattc atggaccaag tgatgacaac atagggtttc acagatggat 240  
 aagagtcttc caagtntacc aggggggaaat atacatgtgt gggtgccaaa acagagtatg 300  
 gcatttcctg anagtcagan nttnatataa gagtataaag tncaagagaa tgggataagt 360  
 agctagggag gtaaggccag acaggntagg cnagtcctag gggcctttca ggccatgggn 420  
 agganaacgt ggggcttcac ccta 444

<210> 597  
 <211> 244  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <223> Genbank Accession No. T68873

<220>  
 <221> unsure  
 <222> (1)..(244)  
 <223> n = a or c or g or t

<400> 597  
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 ggaatgtagc aaatgctcag ggttgtatga aaaaaaaatc caggtttggtg caggttgctc 120  
 tgttttacatc tgggagcagg gctgtcccca catcaggcac agcagctgca cttctccgac 180  
 gcccctttgc agacgcagcc ctgggacact tggcacagcc atggnagacc aggagcagca 240  
 gctc 244

<210> 598  
 <211> 346  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <223> Genbank Accession No. T73433

<220>  
 <221> unsure  
 <222> (1)..(346)  
 <223> n = a or c or g or t

<400> 598  
 gggagaaaata accagctatt gttccgcatt caaacagaaa ttcaggtgct tgcattctttc 60  
 acgtattggtt caaaaatcac aagcatctgt ggaaaaaaac taagggtatta cagacactac 120  
 acggagggtca tgttcttaca ttcaagacac taaatacaaa ccgangcant gcaaaattgt 180  
 atactttaat tttaaaaccc antttttgtt ctcaacttga aaagggnaac acttttttgt 240  
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 acactggggtt cttgcctccc ccccccntt ctctaaaatn aacca 346

<210> 599  
 <211> 475  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <223> Genbank Accession No. T78398

<220>  
 <221> unsure  
 <222> (1)..(475)  
 <223> n = a or c or g or t

<400> 599  
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 acttttctta aacaaaaaac atgtcctact tcccttatac actttcgatg gagaattttt 180  
 tctcttgat ttagtaattt caattatata cattttattac aatgttaact tttaggtaac 240  
 tcttattttt aggtgaaaaa ccttgggagg gtaggccgtt ttaattatgg taccaggatg 300  
 gcaaagggtc aggaacaagg ggaccaagcg ggggaggctg ggcctagggt cataggcctt 360  
 aaaaacttta aatcttaagg gataaagggg nggggggnac ggtggggcct cacggnctgg 420  
 ttaatcccg ggggttgggg gaggggcgag tgggggtggg gntcacnggg ggtca 475

<210> 600  
 <211> 445  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <223> Genbank Accession No. T79768

<220>  
 <221> unsure  
 <222> (1)..(445)  
 <223> n = a or c or g or t

<400> 600  
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 gcacccagca cacacacagg acaggggaaa ggggtgggaga gatgcatgca ctgggaccct 180  
 gggatagatt caagataccc ttgctggggg aggtgggggc tggccgtag ttctaactca 240  
 gtctttctcag tgccacctcc agcccctgtg ggtctttatg ggggccaac tctttatcca 300  
 tctttccttg ggggtgatgg agggcatgtt cgccagcatt aaggatcttc ccagncacag 360  
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<210> 601  
 <211> 408  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <223> Genbank Accession No. T85532

<220>  
 <221> unsure

<222> (1) .. (408)

<223> n = a or c or g or t

<400> 601

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ggaggctgag gcaggaggat tgcttaagcc cagaaatttg aggctgcagt gagccatgat 180
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gggatgggca ccaattaaat tatttnaggc cctgggttat tgnaaaat 408
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<210> 602

<211> 459

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. T86148

<220>

<221> unsure

<222> (1) .. (459)

<223> n = a or c or g or t

<400> 602

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ttgttagtgG acagaggagg aaacgcaggg ttctgcctg gggagnatga cagnccacag 360
cgcttggggT nccgtcaggG ctttcgtgtn cagttagcgt ttcacaaact ngaggaggag 420
tattaaaana gcccaaacc caaagtttct ttttttcaa 459
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<210> 603

<211> 357

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. T89160

<220>

<221> unsure

<222> (1) .. (357)

<223> n = a or c or g or t

<400> 603

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catggcagaa agtgagaggg tgagagaggg acaagggagg ggaactgaac tcatctcttt 180
atcagtaacc cactcctgca ataactaatc cactcccaca ataacaacat taatctattc 240
atgagggcag agctntcatg acctagtcac ttcttaaagg ttctacctta actccattgc 300
tttgggggat taaatttcaa catattaaac ccttgggagg gacacattcc aaaccac 357
```

**CONFIDENTIAL**

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<220>  
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<222> (1)..(494)  
<223> n = a or c or g or t
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```
<210> 605
<211> 391
<212> DNA
<213> Homo sapiens
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```
<220>  
<221> unsure  
<222> (1)..(391)  
<223> n = a or c or g or t
```

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<210> 606
<211> 483
<212> DNA
<213> Homo sapiens
```

<220>  
<221> unsure

<222> (1)..(483)

<223> n = a or c or g or t

<400> 606

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nggtgccaga tctttctcca tgtccgtccc agtttggtga cgatgccatg cttcaatggg 420
gtantttcag ggtcaggatg ccangtttgc tcttgggcct tcgttcgcca cgtagggaat 480
tct

```

<210> 607

<211> 233

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. T90889

<220>

<221> unsure

<222> (1)..(224)

<223> n = a or c or g or t

<400> 607

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ctttgtacat gagatacata tagtatttaa acattttact caacaaacaa gaatttaca 120
tagcaatata actgactaga gggctatcaa ctttaataata cttagattag atctgtactt 180
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```

<210> 608

<211> 305

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. T94447

<220>

<221> unsure

<222> (1)..(305)

<223> n = a or c or g or t

<400> 608

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gaagtcacta ccccatatg tctccttggg cttcttcccc ctctcttctt ggaacctgac 240
caggcagaac gcagcaactg ncagcaacag cagccccagg gagcacccca atcagagntc 300
cggcc

```

<210> 609

<211> 302

<212> DNA  
<213> Homo sapiens

<220>

<223> Genbank Accession No. T95005

<400> 609

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ctcaaggggt ttttgggggg aatttgacaa gctgattctc aaggttacat ggaagagcaa 180
gggccgagac tagagtttag gagatgattc ccaaaggcac aggggcagaa aaatgaccag 240
tggaaccaca tagaaaaatc aattattgta ttttcaatgg atcactaggc agcagggaaa 300
ag                                                                 302
```

<210> 610

<211> 352

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. T96171

<220>

<221> unsure

<222> (1)..(352)

<223> n = a or c or g or t

<400> 610

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ccttaaggta tgtcatgagt aaccttttaa ttctccataa aattaattat tgtgtttttt 180
gtttgcttgg ttttctatga ccctatcata aattcaactc caaactctgc accaattttt 240
tttaaacttt actcaagaat ttagggccac ataaacattc caacaaattt gtcttcgtag 300
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<210> 611

<211> 358

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. T97243

<220>

<221> unsure

<222> (1)..(358)

<223> n = a or c or g or t

<400> 611

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cgagcagctt ttcagaggca gaggagctaa gagaagcagc agtccaaagt gaggaaggga 180
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<210> 612  
 <211> 348  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <223> Genbank Accession No. T98019

<220>  
 <221> unsure  
 <222> (1)..(348)  
 <223> n = a or c or g or t

<400> 612  
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 agctgttctt taagggccca gttcttatcc tcagaatctc tctgtagagg caaaacgaag 180  
 atcagaggat gattagaaag ccagaggaaa ggtcaacagg gagaagagag cccagggaaa 240  
 ctccaggtcaa gccaaaagag ggagcacagt aatttatctg gtagttgcct caatctgtgt 300  
 tttccccaag gccttgggaa gaattaaatt cttttggtat tgtntttt 348

<210> 613  
 <211> 307  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <223> Genbank Accession No. T98288

<220>  
 <221> unsure  
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 <223> n = a or c or g or t

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 gctactggca tgcaccacc ctgataggng ttttttatct ttttagggatg gggctctgct 180  
 atattgcaca ggccagtctt gaaccctggg gctcaggcaa tccctccacc tcagcctcct 240  
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 gagacag 307

<210> 614  
 <211> 2376  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <223> Genbank Accession No. U02020

<400> 614  
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 aaagtttatt cctactttga atgccgtgaa aagaagacag aaaactccaa attaaggaag 180  
 gtgaaatatg aggaaacagt attttatggg ttgcagtaca ttcttaataa gtacttaaaa 240  
 ggtaaagtag taaccaaaga gaaaatccag gaagccaaag atgtctacaa agaacatttc 300

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caagatgatg tctttaatga aaagggatgg aactacattc ttgagaagta tgatgggcat 360
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<210> 615

<211> 5102

<212> DNA

<213> Homo sapiens

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<223> Genbank Accession No. U03688

<400> 615

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5102

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<213> Homo sapiens

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541

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<220>
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1987

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<212> DNA

<213> Homo sapiens

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<223> Genbank Accession No. U08021

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<220>  
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<211> 2244  
<212> DNA  
<213> Homo sapiens

<220>  
<223> Genbank Accession No. U19495

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<210> 621

<211> 3100

<212> DNA

<213> Homo sapiens

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<223> Genbank Accession No. U20350

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<212> DNA

<213> Homo sapiens

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<223> Genbank Accession No. U20734

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<211> 426

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. U30999

<400> 628

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<210> 629

<211> 2344

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. U41518

<400> 629

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<211> 1303

<212> DNA

<213> Homo sapiens

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<223> Genbank Accession No. U41804

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<210> 631
<211> 1443
<212> DNA
<213> Homo sapiens

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<220>
<223> Genbank Accession No. U45955

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<210> 632
<211> 554
<212> DNA
<213> Homo sapiens

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<220>
<223> Genbank Accession No. U52969

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cgatgagtga aaaa
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<210> 633
<211> 1974
<212> DNA
<213> Homo sapiens

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<220>
<223> Genbank Accession No. U53225

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<220>
<221> unsure
<222> (1)..(1974)
<223> n = a or c or g or t

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<210> 634
<211> 3025
<212> DNA

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<213> Homo sapiens

<220>

<223> Genbank Accession No. U53445

<400> 634

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3025

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<211> 2093

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. U57316

<400> 635

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<213> Homo sapiens

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<213> Homo sapiens

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<223> Genbank Accession No. U75272

<400> 641

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<213> Homo sapiens

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<213> Homo sapiens

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<213> Homo sapiens

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<211> 448

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<213> Homo sapiens

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 <213> Homo sapiens

<220>  
 <223> Genbank Accession No. W45664

<220>  
 <221> unsure  
 <222> (1) .. (534)  
 <223> n = a or c or g or t

<400> 661  
 ttttttccta aagtcattta ttttcttcga gaactctgga cattccataa ctgggtgtgt 60  
 agtatgagta gaatgaattc agtgctagcc tcttgctgga gagggacaag tgcaggttta 120  
 gaattacagc ttatgtaga aggttctctt ctcatcgata ccttcatgtt agaagaaaga 180  
 ggacagaggc agagctgatg gaatctcata aaataacagc taatgccgtg tgtcaggcac 240  
 tatgcttaac aagtatctgt ttaacatgtg taaatgctct ttagctcttg cttttctata 300  
 atataaaaaca gtcctgggag tctgtttctt ccccttcctt tctctcgtgt cctttggact 360  
 gtcttttngc agcctctggc ctttctcatt atctactaca gcttgctacc tgactcatca 420  
 aaggcacatg ggtgttgcaa gagaggatgg gaaccgggtg gtttatacca ttaaaactggc 480  
 cattataaca gggagctata aggtggaaaa ataggagncc aggaaataaa gccg 534

<210> 662  
 <211> 444  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <223> Genbank Accession No. W46395

<220>  
 <221> unsure  
 <222> (1) .. (444)  
 <223> n = a or c or g or t

<400> 662  
 ttttttgcac ttcgcccaca caggacagtg gagccccacc tggtcagttc cacttccggg 60  
 ctcccatgca cttgcccagc gcggcctctt tgggacgggg atggtttgag gaaacacttt 120  
 taaagaaaaa aggaagacat tgaaagggtt tagtttcttc cctatctgca tgcctctca 180  
 tatagaaagc ccagaattag gggctagaac tccaggagag ggtctccccg actcatctct 240  
 tgctgacggt caccaggatg cagaaatagg gagatgggta gtggggggcca aagatgcccc 300  
 ctcccaggcc ttcgtggtc cctcctccgc cccctgcaat ctttgggagg agtcagtgcc 360  
 tcaactcagc agtgagtgcc tactgtatgc aggtagtcag ccaggcaaag agagactaac 420  
 ggtctcatgg gggaacctct tgan 444

<210> 663  
 <211> 489  
 <212> DNA  
 <213> Homo sapiens

<220>

<223> Genbank Accession No. W49708

<400> 663

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ttttttcacc gcagagatgt ttttattgaa atgcatgtta tgagtaacac atgaactccc 60
tctggcccag gtgggacttc ttcctcata ggtgggtcag gccagtgagg acagtcttgg 120
tggtggttaag aaggagacca agtgacagaa ggtctccaag gcataggaga tgggtgtccgg 180
tgagtctggg gaaccgagga ttatgaagcc tgctggaagc cttggtatgg tatggttctt 240
ctcagctgtg gctgcagatt tctcttcatt ggctgcctcc tctgaaaaca gactcctctt 300
ttctgcaatt aatcttttaa ctctaccat cactgactt gacctcagtc acatgggtcaa 360
ccatgagggg gcggtggatg tcatctgctg cgtcccaccg gtggcttgaa aagctcttgc 420
accagtagag ccattctctt ctttacaggg tattgacaac tttcctccaa gccactgtt 480
ccttgcaag
```

<210> 664

<211> 678

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. W51743

<220>

<221> unsure

<222> (1) .. (678)

<223> n = a or c or g or t

<400> 664

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cacaaaaaaaa aaatcactaa aaattccac aaatcttgtt tctggcactt tagaaaaact 60
gcaaaaaaaaa acgtaataaa gaatacatat atatatatct acacacaaat tatatatcta 120
tctatctata cagcggaacc acaagagaga ctgaggaagg cctggaggca ggggcagagg 180
tgacgacagt gccctatat ccttaacca tactcctctg aggcaaacag gcatgggaaa 240
atggaagggg tgaggatgga ccggagaatt ggaacttcag aatagggtcaa aattccaaaa 300
ccatggacat ttttttttgg gagaattgag attgtagaca tttttttttt cttaaatatg 360
atcaaggaaa atagcttcca gaatgtggtg gttctgggca acaaatgaga ttgtggcgac 420
gtggagatta aaatatatgt atttgagctg ggggaatttga atattgtgag tttcagatgt 480
tggaattttg ggattttgca gttttgtctt ttgaaaatga tcaagtcttg tcagtctgtg 540
cctcttttcc ccatgttccc tgggaagacg ggtggtggca gagtgagaag gccactggtc 600
tgtgccgcac acgcaaaatt tagaatctcc agctagctct atcgtgtgag gnccagatta 660
gggaantgcc atattacc
```

<210> 665

<211> 453

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. W52065

<220>

<221> unsure

<222> (1) .. (453)

<223> n = a or c or g or t

<400> 665

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tttttttttt ttttttcaga ggtcaaatca cttttattct ttaaggattc agtgtaacat 60
ccttttcttt aataaaataa ttaaactctg gcagaaatta acttattcaa aaagtcatac 120
```



<400> 668  
catcattttt tattgtaaga aaatacacag tttgaaagtg tgaataatgc aatatttatg 60  
accaagaaat gggacttagg aaggggaagg aagataaaga aaaagatcaa gatgatctga 120  
ttgagagaca gtgttgaact ccaaatactg aactggaaaa ggaggagggt ggggaggaac 180  
aggaggagga agtaaaaaaa tttgatcaga gaaacagtta aaatacaata tgaaaaataag 240  
taatacctct ccttaaattc cttctataca caaaatacac gatttgccaa agcccaattt 300  
gtgctactgg gattctgtga gtccttaag tgtattcaca tcctctgcaa cagcagaaaa 360  
tgattatgat acaatcagaa tatgctgaag acaagttaaa ctcttgccag caggttcctt 420  
aaaaat 426

<210> 669  
<211> 426  
<212> DNA  
<213> Homo sapiens

<220>  
<223> Genbank Accession No. W57931

<220>  
<221> unsure  
<222> (1) .. (426)  
<223> n = a or c or g or t

<400> 669  
tttttttttt tttttgggag gcaggagttg ctttttattg acttggaagt gggctcttca 60  
gtgaagcccc tttggtnta agagcatttt cctgcttctt ttgttcttcc tgcaacttct 120  
gctgcctgag ctgccatgct tgtaatccag cgtccatttc ctgtgacagc agtacaactc 180  
gtcttgcaaa cgtctccctt tcagcttttc ttcgaagctg gcctttcatt gggggagcag 240  
ggcggccatc cgattatgac cagtctggga gctcggttaag gggcccgtaa gccggagggg 300  
ttggcagcca agtccctgct gtantcgcca ctggccgccc gcccaagcgg ttacnttgca 360  
gtgcaccctt ccggacacct gtgaagagaa cagtccttaa agcagccatg tgagcagcct 420  
cgtgcc 426

<210> 670  
<211> 98  
<212> DNA  
<213> Homo sapiens

<220>  
<223> Genbank Accession No. W60186

<400> 670  
aacttacaaa caaaaatacc gtaataataa acccaaacaa agaccctcag cttgctgcca 60  
cgttctctat gcggtttggc ggggcgggta tttacaag 98

<210> 671  
<211> 597  
<212> DNA  
<213> Homo sapiens

<220>  
<223> Genbank Accession No. W63793

<220>  
<221> unsure  
<222> (1) .. (597)

<223> n = a or c or g or t

<400> 671

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ggaactgaga aaacagcaaa gttgactaaa ttttatattt cttgtcctct aaatattttg 60
ataatttctg gattgatgca gtgatgtttt tgttccttcc gtatttataa atgaaacacc 120
tttttttagt gtttctaaac ctaaaatcta cttggtttga aatcaagtgg ttggaacact 180
gtttgacttt tatttgaagc atgttggtga ttgaaaattt cattgaggaa gttttcaatc 240
agtgtgatca gtttgattct gtaatgagca cagcacctaa tattttgagg agctctgttt 300
tgaggaccaa tgcttaaggt ggactttgtt cgtaaacaat atcccaatag atttgttgac 360
ttgaggtctg gtttggtttt gtttttgttt tgttttgttt tgttttgttt ccaatagaat 420
taagaattct aatgttgaaa aactgcacaa atttttatgg gacaaagcct agaaaagaga 480
aatgtagttt gaatcataac caaaaccacg gatgatagaa gagggaaagt ttggggccat 540
aatttctcct tcaactggtg tgacctaaac cgttggaaag gaattccggn cccaatt 597
```

<210> 672

<211> 447

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. W67225

<400> 672

```
ttttgtgttc caataaaatt ttattaacaa aatatgacag tggggggggcc acagtttgcc 60
aaactttgcc ttggaggaca tgcagaggca ccctcagaat tcagtgaaaa cctgctccca 120
tattgctaag actcatgaag tataatctct catcttcttt ctctttcccc tgcccaagcc 180
ctaagttagg gttcccatcc atataacaaa gacttctggt caggtggcat ttgctatctc 240
tgagattccc tgcccatgaa agccacaaag agatttcttc ttttacacac cctgaagcat 300
attatggccc cagcaaggct aactaaatca aactgtggtt taaaaacaaa acaaaccaac 360
cactgtgaaa tatttatttt tgtttgtag tattaagcat gattaaacca gtgcagaaaa 420
atactaagta cattgggtaa aagatga 447
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<210> 673

<211> 411

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. W67577

<220>

<221> unsure

<222> (1)..(411)

<223> n = a or c or g or t

<400> 673

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ctaattacta ctttttattc taatgtgaac catgggccct ggaaagctga taacaagctt 60
ggctgagcag agggaactag gggtcaggca gaaaggatta tgggntggaa aacattggct 120
cttccttggg nagtggatgc tngggaaagg ggaagagagt ggctcancct ggcaggtaaa 180
taggctagaa aagccaaggc caaanctggn gaggggagag gacagtcagc atgtccagcc 240
tgggggtctg gtgtaagggt tatcccttct ccctgggtgcc ttcccatctc gtccatgagc 300
ctaaggtctt gggagccttg tgttgggagg ctgctgtgat gtcagggaac ggggatctgt 360
ctagcttttg gccacttctt ggggacctca caccctgtt tganaaattg g 411
```

<210> 674

<211> 473

<212> DNA  
<213> Homo sapiens

<220>

<223> Genbank Accession No. W69302

<400> 674

```
gctttcgggtg gttccttggg gactgggaat tgcttgtgtg catgtgttgg gtgcatgctt 60
ccgggtctca gctgccccag gcccgcacag gcaaccctt cccatccaaa gccattggtg 120
gagcttctct ggaatcattt gccaaaagcc caaggcagaa tccaagggtc caagaccatt 180
tccatggagc tcatgttttt cttttctgta ggaactttt ttaaccagc acccaccata 240
attccgaagc cacgtttcat ctttcctgga tcactacagt gaagtattac acgttgtaga 300
cgttcccagt ctggccttgg cttgctcgga taaaactttg tatgtatttt gtatggcata 360
gattctatat tgtaatgatg tcctatgcaa aaagagaaat taacgaaatt gtaaatttta 420
ttgttttaac gtgtatgcat gtttagtgac gtttacattt tgaaataaaa ttt 473
```

<210> 675

<211> 128

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. W70131

<400> 675

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gttttttgac ttcatttatt atataaggaa cctaactcaa attggottaa gcaattaata 60
aatgtttatt gttacattgt tgtaatgtgg ctggaaatcc agaagtcata caaatctgtc 120
aggattgg 128
```

<210> 676

<211> 428

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. W70167

<220>

<221> unsure

<222> (1)..(428)

<223> n = a or c or g or t

<400> 676

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cagttctgtc ctttcgagaa aaacgtggaa tcgacgagga ctttcctgca gacggtgagc 60
agtgagaagg tccgctccac taatctcaac tgctcagtga ttgcggacgt gaggcattgac 120
ggctccgagc cctgcgtcgg acgtgctgtt cggagacggg catcgctcga ttatgcgcgg 180
cgtcatctca ccgctctgga aatgctcacc gccttcgcct cccacatccg ggccaggggac 240
gcggcgggca gcgggggacaa gccgggcgct gatactggtc gctgacagcg ccaaagagac 300
caacaagatg attttagcgt ggactaggac acttaaccta agaagagttt cacttaatca 360
ttcaaatcac tatctgaagg gtcacgggagc gcaaaataaa gtttaaaacc ctgtaccaa 420
aaaaaaaaan 428
```

<210> 677

<211> 359

<212> DNA

<213> Homo sapiens



<220>  
 <223> Genbank Accession No. W73038  
 <400> 677  
 tttttttttt ttttttaaaa atcagatggg gactttattg tgatgggtggc aggtccacca 60  
 gcagatgcaa atgtgggggtg ctgagagtgg caacacaggc caccctaaac caacttcaact 120  
 ccctcccttg tcttcagcca gtacagaagc caaatgtagc cccagcccta gactccagcc 180  
 caggcagagt ccaagggagg ggtgtcaggg tcagaagtca caggagagccc agtgactatc 240  
 aaggtggctg agagcaaggc tagggtaggg atggggcaga gaaagggcag ggggtgcagc 300  
 ccaggtggcc caaagcaaca cagaggagca agggctggca ttcaagtcag caggctccct 359

<210> 678  
 <211> 620  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <223> Genbank Accession No. W73790

<220>  
 <221> unsure  
 <222> (1)..(620)  
 <223> n = a or c or g or t

<400> 678  
 ctgggttgaca aagaggggtat ttattgaggg tttactgggt acanggagaa gggctggatg 60  
 gcttgggatg cagagagaga cccttcccct gggatcctgc agctccaggc ccctttgggt 120  
 ggggtcgggg ctgggaacct atgaacattc tgcaggggac accgtcttct ccacgggtgct 180  
 cccttcgtgc atgacctggc agctgtagct tctgcgggac ctccactgct cgggcgtcag 240  
 gctcaggtag ctgctggccg cgtacttggt gttgctctgt ttggagggcg tggcatctc 300  
 cagcccttg gtgatggggg taccatctgc cttccaggtc accgtcaaga ttcccggata 360  
 aaagtcattc atgagacaca ccagtgtagc cttggtggct tggagctcct cagaggacgg 420  
 cgggaacaga gtgaccgagg ggggtggcctt ggntgactta aaacgggtgag ctgggtcccg 480  
 ctgccaaaca catgcgtcac tgagttatgc ttggattgaa accccggggc cancacttgg 540  
 ggcagtccag gagccgcctt gaacaggaac ctgcccaccg gttcctaagc ttgaccgctg 600  
 nttctccagg gtccaggncc 620

<210> 679  
 <211> 697  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <223> Genbank Accession No. W73859

<220>  
 <221> unsure  
 <222> (1)..(697)  
 <223> n = a or c or g or t

<400> 679  
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 acaaatacga gaacgggtac attcaccggg tcaacctgac gtggcccttt atggtggccg 120  
 ggaaaccgga gagtgaacctg aaagaagtgg tgaccgcgag ccgcttatgt ggaaccaccg 180  
 cgtcctgacc ttggaggtgc gagtctggga aaggcgcgct cccgggggga ngcgcnct 240  
 gggaaggcga ccctgcctt cagtgtcttc tgtctctgct tccccctcgc aatgctctc 300

```
tctctgtccc accccgcgag aacactttac aacgacgagg agattcgttt ccaaaccaga 360
ggagatcaat tgtacttaca aagattccca tctatttaac tttatttaact tctaccgtga 420
atgactctgc aagccttgct ggtccaagtg caatatgtaa ttataaatat ataaatagat 480
aagagcctat caatgtatct tttgtacaat atgttgtaaa atgtagatca taggatagct 540
gactttgaca gtcacattta taaagtaatt cacttaaaga tatatatatt tccaacaagt 600
ttgcactttt gaaataaacc ttctttatat gctaaaaaaa aaaaaaagat nggcggantt 660
tccttggggg gtaattantt gatgcgcgtt aangcgg 697
```

<210> 680

<211> 676

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. W74533

<220>

<221> unsure

<222> (1)..(676)

<223> n = a or c or g or t

<400> 680

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tttttcagtt ggacacaaat gtattttatt taccctagca atagaacaaa atataatttc 60
tttagccatt tttcatgaga atagttcatt gtacagttga ggaaacatat gaaataaggc 120
ctgtgggtga ttgctagtgg ttaagcatgt tttcaatctt tgccttaatg taaaagattt 180
gcagtgaact gcaaactgat gcagaatata tctcctgctt ttccaagtct tgtcagggaat 240
agtaaggtag agtaaatgtg tcccacagga ttttaaagcc tacgtcttgt atataatata 300
atgcaggcct acaaaaatgg tgcagccata tttcacaatt tagttcacag actgctgcag 360
taaaatggct ggaaagtgtt gttttgcttg tttcacaatt tctctaaaca gcagcagaat 420
cttaaaatac ctggctggca tctcttttct ttgtaacaaa taattcactt tagtatactc 480
tgtgtatata caaagttttt gtatgtttta taaaaattca cagaactgca aggttcagtc 540
acttttttac accagagaac cacagggtcaa gagcactctt caagcagagt tgagggactg 600
cgnagccaat ggtgccttat tattaataccc gcatgggcct ggatcctagc tgagataagn 660
tgtaccacgc atgcct 676
```

<210> 681

<211> 496

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. W76181

<220>

<221> unsure

<222> (1)..(487)

<223> n = a or c or g or t

<400> 681

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cgaggagtcg gggcaaagct gggcctgcgt gagattcgca tccacttatg tcagcgctcg 60
cccggcagcc aggggtcagg gacttcattg agaaacgcta cgtggagctg aagaaggcga 120
atcccgacct acccatccta atccgcgaat nctccgatgt gcagcccaag ctctggggcc 180
gctacgcatt tggccaagag acgaatgtcc ctttgaacaa cttcagtgtc gatcaggtaa 240
ccagagccct ggagaacgtt ctaagtggta aagcctgaag cctccactga ggattaagag 300
caacagcccc agagcctggg ctctgctgga cttagtataa tgtgaaaaaa atgtgttctc 360
ctatttctca taaagcttgt gctgtaaaat actttctcag ggtgttcttg tctcatcta 420
```

ccctctaccc cttactgtgc aaccactgag gcaaagtagc ttaatatataa aataaaaactt 480  
tattctgtgc tcaaaa 496

<210> 682  
<211> 315  
<212> DNA  
<213> Homo sapiens

<220>  
<223> Genbank Accession No. W78127

<400> 682  
gaaaagacgt gcttgtcatt cttaataaac aactagagta agaatacata agagaaacag 60  
agtggatctt ttatatgata cacaagtgtg tggtacaaga attccatcag gcacaggagc 120  
ctcagggtttt aaggcctcaa tggtaggcca acaaaaaaaaa aaaaggcatg gtaaagtttt 180  
tactttttaca tctaaaatgt cacttgtcat aaaggagggt gtaatatagaa ttgtctttta 240  
taaatacataa ttgaagttcc cctcattttt cttccattaa gatgctaagt ttatgtctga 300  
tcatgaagaa agaaa 315

<210> 683  
<211> 418  
<212> DNA  
<213> Homo sapiens

<220>  
<223> Genbank Accession No. W86513

<220>  
<221> unsure  
<222> (1)..(418)  
<223> n = a or c or g or t

<400> 683  
ccagtgaaac tcatttttatt ttcagctgaa aaatatacac agataagcat taaaattgaa 60  
ttattatagg ttttctgaaa ataaaatttt acaataactta tgtttaacaa agattaaaaa 120  
attcaaacaa atcaggaagg cacagggtctt gtaaaatgta ataaagaatt tagtccatac 180  
cttgatgcat agtgggtggca ttaaattggca caatttttcg gtatcatgcc tgcctgcctt 240  
agatctcaaa cagacctact ctcttttcct tctttctcat cttaacaaac ttttgataat 300  
caagcatcat agtatgacaa agagagtaac aagagctgtg caggccagca catccagaga 360  
gcagtactga aaccagggtga gcttgtgggc aggtngcagc aggtacttgg gctccatt 418

<210> 684  
<211> 265  
<212> DNA  
<213> Homo sapiens

<220>  
<223> Genbank Accession No. W88568

<400> 684  
gttttttaac attttaattt caacgtgccg gcatttgtcc aaatgagatg atacaggcta 60  
gaatgcacgg cggaattcca gactggactc actccataag ccaactcatc actgcccgtg 120  
aacatgaatt ctggctctca gagaagctga cattgtttcc ctgaacattc ccgtgggtctc 180  
cctctgaaag ccgatgacca tccaaccctg actcacctga aatatcctac gagcatcgcc 240  
ctccgagact gacgattatt aacca 265

<210> 685  
 <211> 395  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <223> Genbank Accession No. W92207

<220>  
 <221> unsure  
 <222> (1)..(395)  
 <223> n = a or c or g or t

<400> 685  
 gtgttccaat aaaactttat ttacacacat tgaaacctga atttcataca attttcacgt 60  
 taccaaattt taattttttt tcaactattt aaaaatgtta aaaccattct tagctcacag 120  
 gctatgcgaa anagancaac cagccagatt cggcccacgg ttttaaggcca gtttaagcct 180  
 caccaccttc ctagcccccac tcacctattt tgtcctctca tcttctgtc cttcagcacc 240  
 cccatgacct tcctgtgacc ttcaatggcc cctccagctg ccgtccagcc ctgtctgtct 300  
 gcccttnggg gacctctctc tcctgggctg caggactgtt ttttcctgga gcaggtctct 360  
 aaatagctcc attcgcttg gcagggggaa tccag 395

<210> 686  
 <211> 241  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <223> Genbank Accession No. W92449

<400> 686  
 ttttttagat tcattctttt aatgacatcc taaaattcag aggagggggc agcgggacct 60  
 ctgggctcag cggctgtgaa ggaggggacc gcaacaccgc ctaaggcagg taattgcaag 120  
 aaggcactcg cgagggggac ttcaagcccc tcttctattt cttcatataa aatcaggggg 180  
 atgggggaaag ctccaagggc gaggaagca gagagtctct ctcccagcct atggaataag 240  
 g 241

<210> 687  
 <211> 355  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <223> Genbank Accession No. W94333

<400> 687  
 tgaacatttc atcttttact ttttagcacc aacagacttg ataacagcct gatgctgac 60  
 tgacaatggg ttgatagcct tccccactg acccttaaat ctgcttagta acaagtcctt 120  
 tgcttctgtc attctcctgg gggatggcct actcgccctc ctttctgtac aatctgggca 180  
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14646

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<213> Homo sapiens

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<211> 2511

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<213> Homo sapiens

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<210> 712

<211> 2152

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. X62320

<400> 712

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<210> 713

<211> 367

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. X64177

<400> 713

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agaatgacac gtaaaatccg aggttttttt tttctacaac tccgactcat ttgctacatt 300
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<210> 714

<211> 439

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. X65614

<400> 714

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439

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<211> 6004

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. X65965

<220>

<221> unsure

<222> (1) .. (6004)

<223> n = a or c or g or t

<400> 715

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<211> 813

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. X66141

<400> 716

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<211> 2390

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. X66899

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<211> 1943

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. X72841

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<211> 3151

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. X76180

<400> 719

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**<220>**

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<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. Z11793

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<211> 260

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. Z38266

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aggagacact taagatcaat tcaagagaat agctttcagt gttcacagaa ggggtactca 240  
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<211> 270

<212> DNA

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<221> unsure

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<211> 287

<212> DNA

<213> Homo sapiens

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<210> 736

<211> 323

<212> DNA

<213> Homo sapiens

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<222> (1) .. (323)

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tacaattact ttacataaat ngaaatccac gtctttatta gtaatgtnc acacatctta 240
gagtaaaaat ttacataaga taggcttata aatatacata aatctcaaaa ttaatcacia 300
acattaggta cacaattggt ata                                     323
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<210> 737

<211> 326

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. Z39983

<400> 737

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<211> 254

<212> DNA

<213> Homo sapiens

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<212> DNA  
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<211> 292  
<212> DNA  
<213> Homo sapiens

<220>  
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agctgggggg actagggccc ctccccgaaa gccccattc tgagttgttg gtgcctgccc 240  
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<211> 270  
<212> DNA  
<213> Homo sapiens

<220>  
<223> Genbank Accession No. Z40898

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<212> DNA  
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<220>  
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<220>  
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 <223> n = a or c or g or t

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 <212> DNA  
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<220>  
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